

**CURRICULUM VITAE**  
**ANDRÉA GENEVIÈVE GROTTOLI**

**ADDRESS AND CONTACT INFORMATION**

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**RESEARCH INTERESTS**

- Impact of climate change (i.e., temperature and ocean acidification) on coral physiology, ecology, isotope biogeochemistry, and resilience
- Technology interventions for restoring coral reefs
- Tropical paleoceanography derived from coral, gorgonian, and sclerosponge skeleton light isotope ratio ( $\delta^{13}\text{C}$ ,  $\delta^{18}\text{O}$   $\Delta^{14}\text{C}$ ) and elemental ratio (Cd/Ca, Ba/Ca, P/Ca, Sr/Ca, trace elements) proxy records

**EDUCATION**

McGill University, Montreal Canada	Biology (with Distinction)	BSc. 1992
University of Houston, Texas	Biology (Marine Biogeochemistry)	PhD. 1998
University of California – Irvine, California	Postdoctoral Fellow (Paleoceanography)	1999-2000

Senior Thesis Advisor:	Prof. Robert Peters (deceased), McGill University
PhD Advisor:	Prof. Gerard M. Wellington (deceased), U. of Houston
Postdoctoral Advisor:	Prof. Ellen R.M. Druffel, U. of California – Irvine

**POSITIONS HELD**

2021 - Arts and Sciences Distinguished Professor of Earth Sciences, Ohio State University  
2008 - Affiliated Professor, Dept of Evolution, Ecology, and Organismal Biol., Ohio State U.  
2017 - Chair, Promotion and Tenure Committee, School of Earth Sciences (breaks 2021, 2023)  
2019 - 2024 Director of the Coral Bleaching Research Coordination Network  
2023 - 2024 Office of Academic Affairs Faculty Fellow, Ohio State University  
2019 - 2022 President of the International Coral Reef Society (coralreefs.org)  
2021 - 2022 Fulbright Fellow and visiting researcher Laboratoire Océanographique de Villefranche  
2021 - 2022 Visiting Researcher, Centre Scientifique de Monaco, Monaco  
2014 - 2021 Professor, School of Earth Sciences, Ohio State University  
2013 - 2017 International Coral Reef Society Council Member, Chair of Awards Committee  
2005 - 2017 Head of the Stable Isotope Biogeochemistry Lab, School of Earth Sciences, OSU  
2015 - 2016 OSU-President and Provost's Leadership Institute Fellow (PPLI)  
2010 - 2016 Chair of the Water, Climate, & the Environment Division, School of Earth Sciences, OSU  
2013 - 2014 Big10-Committee on Institutional Cooperation Academic Leadership Program Fellow  
2013 Visiting Researcher, Centre Scientifique de Monaco, Monaco  
2008 - 2014 Associate Professor, School of Earth Sciences, Ohio State University  
2008 - 2011 Associate Professor, Environmental Science Graduate Program, Ohio State U.  
2005 - 2008 Assistant Professor, Environmental Science Graduate Program, Ohio State U.  
2005 - 2008 Assistant Professor, School of Earth Sciences, Ohio State University

2004, 2012, 2016 Associate Editor for my session, Proceedings of the Int'l Coral Reef Symposium  
 2004 - 2005 Career Enhancement Fellow, Woodrow Wilson National Fellowship Foundation  
 2001 - 2005 Assistant Professor, Dept of Earth & Environmental Sci., University of Pennsylvania  
 2001 - 2005 Faculty Fellow in Residence, Fisher-Hassenfeld House, University of Pennsylvania  
 2001 - 2003 Associate Editor, Coral Reefs (Journal of the International Coral Reef Society)  
 2002 - 2003 Co-Editor, Coral Reefs Special Issue: Env. and Climatic Proxies in Reef Organisms  
 1999 - 2000 Dreyfus Postdoctoral Fellow in Environmental Chemistry, Univ. California-Irvine  
 1998 Adjunct Faculty, Dept of Biology and Microbiology, California State U.-LA  
 1998 Adjunct Faculty, Dept of Biology, Concordia University  
 1993 - 1998 Graduate Student Teaching Assistant/ Research Assistant

## AWARDS

2024 Grottoli nominated for the Frontiers Plante Prize by Ohio State University for Sustainability Science Research Breakthroughs  
 2024 Marquis Who's Who Honored Listee  
 2021 AGU Division of Ocean Sciences Rachel Carson Lecturer  
 2021 Arts and Sciences Distinguished Professor of Earth Sciences, Ohio State University  
 2020-2021 Fulbright Fellow (Franco-American Commission for Educational Exchange) (effective 2021-22 due to pandemic delays)  
 2018 American Geophysical Union, Division of Ocean Sciences, Voyager Award (Mid-Career)  
 2017 American Association for the Advancement of Science (AAAS) Fellow  
 2016 International Coral Reef Society Fellow  
 2016 International Coral Reef Society Mid-Career Award  
 2016 School of Earth Science Faculty Mentor Award  
 2015-2016 Ohio State University President and Provost's Leadership Institute Fellow  
 2013-2014 Committee on Institutional Cooperation Academic Leadership Program Fellow  
 2004 F. W. Clarke Award, Geochemical Society, Young Scientist Award in geochemistry  
 2004 Bradley Award: Geological Society of Washington's Best Paper Award  
 2004 Woodrow Wilson National Fellowship, Career Enhancement Fellowship for Junior Faculty  
 2004 Trustees Council of Penn Women Summer Faculty Research Fellowship  
 2003 American Society of Mass Spectrometry Research Award  
 2000 Best Paper Award: International Coral Reef Society, Grottoli & Wellington: Coral Reefs  
 1999 Dissertation Symposium in Chemical Oceanography XV, awardee and participant  
 1999-2000 Dreyfus Postdoctoral Fellowship in Environmental Chemistry, U. of California - Irvine  
 1999 University Women Postdoctoral Research Leave Fellowship, AAUW (declined for Dreyfus)  
 1996-1998 Environmental Protection Agency Graduate STAR Graduate Fellowship  
 1998 Graduate Student Research Excellence Award, University of Houston, TX  
 1989 McConnell Entrance Award, McGill University, Canada

## PUBLICATION STATS SUMMARY

Google Citation indices	All	Since 2020	Other Metrics	Career Total
Citations	9241	4324	Peer-reviewed publications	97
h-index	50	35	Total funding (total to Grottoli)	\$37.5M(\$4M)
i10-index	86	70	Lead PI	28 of 33 grants

**NATIONAL AND INTERNATIONAL LEADERSHIP ROLES**

- 2024 - National Coral Reef Institute, Nova Southeastern University, Technical Advisory Committee, member
- 2024 - Coral Restoration Foundation – Engineering and Innovation Working Group, member
- 2021 – Aquarius Habitat Working Group, member
- 2020 – LabEX CORAIL (France), Scientific Council Member
- 2019 – Coral Restoration Foundation – Genetics Working Group, member
- 2021 – 2022 G20 Initiative Governing Committee of the International Coral R&D accelerator Platform, member
- 2019 - 2022 International Coral Reef Society, President
- 2019 - 2022 International Coral Reef Symposium Organizing Committee, Member
- 2019 - 2022 International Coral Reef Initiative, ad hoc committee “Inclusion of a Coral Reef-Related Target in the Post-2020 Global Biodiversity Framework” member

**COMMITTEES AT OHIO STATE UNIVERSITY**

- 2024 - SES Promotion and Tenure Committee, Chair
- 2024 - SES Faculty Mentor Committee for Melisa Diaz, Co-Mentor
- 2024 - EEOB Faculty Mentor Committee for Jennifer Hellmann, Co-Mentor
- 2023 - BPCRC - IRF2 Planning Committee, Member
- 2022 - SES Administrative Committee, Member
- 2023 SES Seminar Series Coordinator, Spring 2023
- 2017 - 2024 SES Faculty Mentor Committee for Elizabeth Griffith, Co-Mentor
- 2023 - 2024 SES Friends of Orton Committee, Member
- 2023 - 2024 SES DEI Committee, Co-chair
- 2022 - 2023 SES Promotion and Tenure Committee, Chair
- 2014 - 2021 SES Mentor Committee for Audrey Sawyer, Co-Mentor
- 2019 - 2020 SES Search Committee (Ecohydrology), Member
- 2017 - 2021 SES Promotion and Tenure Committee, Chair
- 2017 - 2021 SES Administrative Committee, Member
- 2018 - 2020 Arts and Sciences Investigation Committee, Member
- 2017 - 2020 OSU Research Committee (URC), Member
- 2017 - 2018 SES Faculty Evaluation Committee, Member
- 2013 - 2018 SES Mentor Committee for Michael Wilkins, Co-Mentor
- 2013 - 2017 SES Technical support in geochemistry committee, Chair
- 2015 - 2017 OSU Senate Steering Committee and Senate Executive Council
- 2014 - 2017 OSU Faculty Senator and Faculty Council, Member
- 2008 - 2016 SES Division of Water, Climate and Env. Mini-Symposium, Chair
- 2015 - 2016 Global Water Institute committee, Member
- 2015 - 2016 OSU Graduate Council, Member
- 2013 - 2016 SES Faculty Evaluation Committee, Member
- 2013 - 2016 SES Promotion and Tenure Committee, Member
- 2010 - 2016 SES Advisory Committee to the Director, Member
- 2011 - 2012 SES Concentration: Earth System Science program development, Chair
- 2011 SES Guidelines on Emeritus Space and Resources committee, Chair

2010 CAS (College of Arts & Sciences) Parental Leave Working Group, Member  
2009 - 2011 SES Webpage development, Chair  
2009 - 2010 SES Curriculum Committee, Member  
2009 EEOB Plant Ecologist Search Committee, Member  
2007 - 2008 SES Graduate Committee, Member  
2007 - 2008 SES Colloquium Committee, Member  
2007 SES Division of Water, Climate and Environment Seminar, Coordinator  
2005 - 2012 SES Health and Safety committee, Member  
2005 - 2007 SES Curriculum Committee, Member  
2005 - 2007 SES Major in Oceanography program development, Chair

### **OTHER COMMITTEES**

2001 - 2004 U. Pennsylvania Institute for Environmental Studies Advisory Board, Member  
2002 - 2004 U. Pennsylvania Masters of Environmental Science, Faculty Advisor  
2003 U. Pennsylvania Instrumentation Acquisition Committee in Earth Sci, Member

### **LANGUAGES**

English (native language, fluent spoken, read, written)  
French (native language, fluent spoken and read, proficient written)  
Italian (conversational)

### **CERTIFICATIONS**

NSF I-Corps: Great Lakes Region program

Diving: Padi Open Water Diver  
Nauai Submersible Diver, Nauai Nitrox Diver  
SSI Advanced Water Diver, SSI Rescue Diver  
DAN First Aid for Professional Divers

Mentorship: Optimizing the Practice of Mentoring (National Research Mentoring Network at the University of Minnesota's Clinical and Translational Science Institute) (Nov 2018)

Leadership: Academic Leadership Program, Committee on Institutional Cooperation (B10) (2013-14)  
President and Provost's Leadership Institute, Ohio State University (2015-16)

Teaching: OSU University Institute for Teaching and Learning Component 1: Teaching Practices Inventory (March 2020)  
OSU University Institute for Teaching and Learning Component 2: Teaching@Ohio State and Reading List Reflection (May 2020)  
New Faculty in Geosciences Workshop, National Science Foundation, hosted by the College of William and Mary (June 2002)

### **PATENTS**

**2022** Grottoli AG, Jackson E, Steck J. [Nutrition Therapy for Coral](#): A Novel Underwater Zooplankton Light Array (UZELA) Technology to Stimulate Coral Feeding and Enhance Recovery rates and Minimize Mortality from Coral Bleaching. Title: P2023-085-7643, Application Number 63/422,692 Filed 11/04/2022, Atty.Docket.No. 103361-386PV1

**2023** Grottoli AG, Jackson E, Steck J. [Systems and Methods for Growing Corals](#). Title: P2023-085-8285, Application Number PCT/US2023/078357 Filed 11/01/2023, Atty Docket No. 103361-386WO1

**PEER-REVIEWED PUBLICATIONS** (\*= my student advisee or postdoc)

- 2025 (97) Grottoli AG, Dixon S, Hulver AM, Bardin C, Lewis CJ, Suchocki CR, Consortium R3D, Toonen RJ (in press) UZELA (Underwater Zooplankton Enhancement Light Array): a technology solution to enhance zooplankton abundance and coral feeding in bleached and non-bleached corals. *Limnology and Oceanography Methods* doi: 10.1002/lom3.10669
- 2024 (96) Jury CP, Bahr K, Cros A, \*Dobson KL, Freel EB, Graham AT, \*McLachlan RH, Nelson C, \*Price JT, Rochaa de Souza M, Shizuru L, Smith CM, Sparagon W, Squair CA, Timmers M, Vicente J, Webb M, Yamase N, Grottoli AG, Toonen R (2024) Experimental reef communities transform yet persist under mitigated future ocean warming and acidification. *Proceedings of the National Academy of Science*. 121(45): e2407112121, <https://doi.org/10.1073/pnas.2407112121> Grottoli & Toonen are co-senior authors.  
 ➤ Press releases from U. Hawaii, Altmetric 123
- 2024 (95) \*Dobson KL, Jury CP, Toonen RJ, \*McLachlan RH, Williams JC, Grottoli AG (accepted) Ocean acidification does not prolong recovery of coral holobionts from thermal stress in two consecutive years. (Nature) *Communications in Earth & Environment* 5(1): 515 <https://doi.org/10.1038/s43247-024-01672-5>  
 ➤ Press releases from OSU and USGS, Altmetric 79
- 2024 (94) \*Hulver AM, Carbonne C, Teixidó N, Comeau S, Kemp DW, Keister EF, Gattuso JP, Grottoli AG. Elevated heterotrophic capacity as a strategy for Mediterranean corals to cope with low pH at CO<sub>2</sub> vents. *PLoS ONE* 19(7): e0306725 <https://doi.org/10.1371/journal.pone.0306725>
- 2024 (93) Denis V, Ferrier-Pages C, Schubert N, Coppari M, Baker DM, Camp EF, Gori A, Grottoli AG, Houlbrèque F, Maier S, Mancinelli G, Martinez S, Yalçın Ozdilek Y, Radice VZ, Ribes M, Richter C, Viladrich N, Rossi S (2024) The Importance of Heterotrophy in Marine Animal Forests in an Era of Climate Change. *Biological Reviews* 99(3):965-978, <https://doi.org/10.1111/brv.13053>
- 2023 (92) \*Price JT, \*McLachlan RH, Jury CP, Toonen RJ, Wilkins MJ, Grottoli AG. Long-term coral microbial community acclimatization is associated with coral survival in a changing climate. *PlosOne*, 18(9): e0291503, doi:10.1371/journal.pone.0291503 ; <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0291503>
- 2023 (91) \*Chapron L, Kuffner IB, Kemp DW, \*Hulver AM, Keister E, Stathakopoulos A, Barlett LA, Lyons EO, Grottoli AG. Heterotrophy, microbiome, and location are vital to the restoration of the threatened coral *Acropora palmata*. *Nature Communications Earth and Environment* 4: 233, doi: 10.1038/s43247-023-00888-1, <https://www.nature.com/articles/s43247-023-00888-1>  
 ➤ Press releases from OSU and USGS, Altmetric = 72
- 2022 (90) Vega Thurber R, Schmeltzer ER, Grottoli AG, van Woesik, R, Toonen RJ, Warner M, \*Dobson KL, \*McLachlan RH, Barott KL, Barshis DJ, Baumann JH, \*Chapron L, Combsch DJ, Correa AMS, DeCarlo TM, Hagedorn M, Hedouin L, Hoadley KD, Felis T, Ferrier-Pages C, Kenkel CD, Kuffner IB, Matthews JL, Medina M, Meyer CP, Oster C, \*Price JT, Putnam HM, Sawall Y, Unified methods in collecting, preserving, and archiving coral



bleaching and restoration specimens to increase sample utility and interdisciplinary collaboration. *PeerJ* 10:e14176, DOI 10.7717/peerj.14176, <https://peerj.com/articles/14176/>

- 2022 (89) van Woesik R, Shlesinger T, **Grottoli** AG, Toonen R, Vega Thurber R, Warner M, \*Hulver AM, \*Chapron L, \*McLachlan RH, Albright R, Crandall E, DeCarlo TM, Donovan MK, Eirin-Lopez J, Harrison HB, Heron SF, Huang D, Humanes A, Krueger T, Madin J, Manzello D, McManus LC, Matz M, Muller EM, Rodriguez-Lanetty M, Vega-Rodriguez M, Voolstra CR, Zaneveld J, Coral-bleaching responses to climate change across biological scales. *Global Change Biology*, 28:4229–4250. <https://doi.org/10.1111/gcb.16192>
- Press releases from OSU and Florida Institute of Technology
  - Altmetric = 157
  - Top downloaded article in GCB in 2022
- 2022 (88) \*McLachlan RH, \*Price JT, Muñoz-Garcia A, Weisleder NL, Jury CP, Toonen RJ, **Grottoli**, AG Physiological acclimatization in Hawaiian corals following a 22-month shift in baseline seawater temperature and pH. *Scientific Reports* 12, 3712 <https://doi.org/10.1038/s41598-022-06896-z>
- Press releases by OSU, Oregon State, News stories by NBCNews, National Geographic
  - Altmetric score = 329, over 4,000 downloads
  - Top 100 (out of 3150 papers) downloaded papers in Earth, Environment and Ecology for 2022
- 
- 2022 (87) \*Chapron L, \*Schoepf V, \*Levas SJ, Aschaffenburg MD, Warner ME, **Grottoli** AG, Natural variability in Caribbean coral physiology and implications for coral bleaching resilience. *Frontiers of Marine Science* 8:811055, <https://doi.org/10.3389/fmars.2021.811055>
- 2021 (86) \*Price JT, \*McLachlan RH, Jury CP, Toonen RJ, Wilkins MJ, **Grottoli** AG, Effect of species, provenance, and coral physiology on the composition of Hawaiian coral-associated microbial communities. *Coral Reefs* 40:1537–1548 <https://doi.org/10.1007/s00338-021-02164-0>, viewer access at <https://rdcu.be/ct6YU>
- 2021 (85) \*Dobson KL, Ferrier-Pages C, \*Saup CM, **Grottoli** AG, The effects of temperature, light, and feeding on the physiology of *P. damicornis*, *S. pistillata*, and *T. reniformis* corals. *Water* 13:2048 <https://doi.org/10.3390/w13152048>
- 2021 (84) \*McLachlan RH, \*Price J, Muñoz-Garcia A, Weisleder N, Jury C, Toonen R, **Grottoli** AG, Environmental gradients drive physiological variation in Hawaiian corals. *Coral Reefs* 40:1505–1523 <https://doi.org/10.1007/s00338-021-02140-8>
- 2021 (83) \*McLachlan RH, \*Dobson KL, Schmeltzer ER, Vega Thurber R, **Grottoli** AG, A review of coral bleaching specimen collection, preservation, and laboratory processing methods. *PeerJ* 9:e11763 <https://doi.org/10.7717/peerj.11763>
- 2021 (82) \*Dobson KL, \*Levas S, \*Schoepf V, Warner ME, Cai WJ, Hoadley KD, Yuan X, Matsui Y, Melman TF, **Grottoli** AG (2021) Moderate nutrient concentrations are not detrimental to corals under future ocean conditions. *Marine Biology* 168: 98 <https://doi.org/10.1007/s00227-021-03901-3>
- 2021 (81) \*Price JT, \*McLachlan RH, Jury CP, Toonen RJ, **Grottoli** AG (2021) Isotopic approaches to estimating the contribution of heterotrophic sources to Hawaiian corals. *Limnology and Oceanography* 66(6): 2393-2407, <https://doi.org/10.1002/lno.11760>

- 2021 (80) **Grottoli** AG, Toonen RJ, van Woesik R, Vega Thurber R, Warner ME, \*McLachlan RH, \*Price JT, Bahr KD, Baums IB, Castillo KD, Coffroth MA, Cunnig R, \*Dobson KL, Donahue MJ, Hench JL, Iglesias-Prieto R, Kemp DW, Kenkel CD, Kline DI, Kuffner IB, Matthews JL, Mayfield AB, Padilla-Gamiño JL, Palumbi S, Voolstra CR, Weis VM, Wu HC. Increasing comparability among coral bleaching experiments, *Ecological Applications* e2262, <https://doi.org/10.1002/eap.2262>  
 ➤ Press releases by OSU, Penn State, SUNY at Buffalo  
 ➤ Wiley top cited Article 2021-2022  
 ➤ Altmetric = 130
- 2020 (79) **Grottoli** AG, \*Chapron L, \*Gava D, Olesik J. Natural variability of skeletal elemental phosphorus (P/Ca), lead (Pb/Ca), and barium (Ba/Ca) in the western Pacific sclerosponges *Acanthoecetes wellsi* and *Astrosclera willeyana*. *Geochemistry, Geophysics, Geosystems* e2020GC009245, <https://doi.org/10.1029/2020GC009245>
- 2020 (78) \*McLachlan RH, \*Price J, \*Solomon A, **Grottoli** AG. Thirty years of coral heat-stress experiments: a review of methods. *Coral Reefs* 39:885–902 <https://doi.org/10.1007/s00338-020-01931-9>  
 ➤ *Coral Reefs* Best Paper Award Honorable Mention
- 2020 (77) \*Kelsey SA, **Grottoli** AG, Bauer JE, Matsui Y, \*Huey-Sanders TM. Effects of agriculture and tillage practices on isotopic signatures and fluxes of organic and inorganic carbon in headwater streams. *Aquatic Sciences* 82:23 <https://doi.org/10.1007/s00027-019-0691-7>
- 2020 (76) \*Solomon S, **Grottoli** AG, Warner M, \*Levas S, \*Schoepf V, Muñoz-Garcia A. Lipid class composition of annually bleached Caribbean corals. *Marine Biology* 167:7 <https://doi.org/10.1007/s00227-019-3616-z>
- 2019 (75) Parkinson JE, Barker, AC, Baums IB, Davies SW, **Grottoli** AG, Kitchen SA, Matz MV, Miller MW, Shantz AA, Kenkel CD, Molecular tools for coral reef restoration: beyond biomarker discovery. *Conservation Letters* e12687 <https://doi.org/10.1111/conl.12687>
- 2019 (74) Baums IB, Davies SW, Kenkel CD, Kitchen SA, Kuffner, IB Baker, AC, LaJeunesse, TC, Matz, MV, Miller MW, **Grottoli** AG, Palumbi SR, Parkinson JE, Shantz AA, Considerations for maximizing the adaptive potential of restored coral populations in the western Atlantic. *Ecological Applications*, e01978 <https://doi.org/10.1002/eap.1978>  
 ➤ Press release by OSU, Penn State, Secore  
 ➤ Altmetric = 186
- 2019 (73) \*Bellamy AR, Bauer JE, **Grottoli** AG, Contributions of autochthonous, allochthonous, and aged carbon and organic matter contributions to macroinvertebrate nutrition in the Susquehanna River Watershed. *Freshwater Science* 38(3):616-628, <https://doi.org/10.1086/705017>
- 2018 (72) Yuan XH, Cai WJ, Meile C, Hopkinson B, Ding Q, \*Schoepf V, Warner ME, Hoadley KD, Chen B, Liu S, Huang H, Ying Y, **Grottoli** AG, Quantitative interpretation of vertical profiles of calcium and pH in the coral coelenteron. *Marine Chemistry* 204:62-69, <https://doi.org/10.1016/j.marchem.2018.06.001>
- 2018 (71) \*Levas S, **Grottoli** AG, Warner M, \*Schoepf V, Aschaffenburg M, \*Baumann J, Matsui Y, Long-term recovery of Caribbean corals from bleaching. *Journal of Experimental Marine Biology and Ecology* 506:124-134, <https://doi.org/10.1016/j.jembe.2018.06.003>

- 2018 (70) Barker JD, **Grottoli** AG, Lyons WB, Stable isotope evidence for the biogeochemical transformation of ancient organic matter beneath Suess Glacier, Antarctica. *Arctic, Antarctic, and Alpine Research*, 50:e1448643, <https://doi.org/10.1080/15230430.2018.1448643>
- 2018 (69) **Grottoli** AG, \*Dalcin Martins P, Wilkins MJ, Johnston MD, Warner ME, Cai WJ, Melman TF, Hoadley KD, Pettay DT, Hu X, \*Levas S, \*Schoepf V, Coral physiology and microbiome dynamics under combined ocean warming and acidification. *PLoS ONE* 13(1): e0191156, <https://doi.org/10.1371/journal.pone.0191156>
- Press release by OSU, 4,267 views
  - Featured by Hakai Magazine, Technology.org, Science Newslines, EurekaAlert!, NewWise
  - Top 10% most cited article in PLoS ONE for 2018
  - Altmetric = 111
- 2017 (68) **Grottoli** AG, Tchernov D, Winters G, Physiological and Biogeochemical Responses of Super-Corals to Thermal Stress from the Northern Gulf of Aqaba, Red Sea. *Frontiers in Marine Science* 4:215, <https://doi.org/10.3389/fmars.2017.00215>
- 2017 (67) \*Bellamy AR, Bauer JE, **Grottoli** AG, Influence of land use and lithology on sources and ages of nutritional resources for stream macroinvertebrates: a multi-isotopic approach. *Aquatic Sciences*, 79(4):925-939, <https://doi.org/10.1007/s00027-017-0542-3>
- 2017 (66) \*Tanaka Y, **Grottoli** AG, Matsui Y, Suzuki A, Sakai K, Effects of nitrate and phosphate availability on the tissues and carbonate skeleton of scleractinian corals. *Marine Ecology Progress Series* 570:101-112, <https://doi.org/10.3354/meps12079>
- 2017 (65) \*Schoepf V, Hu X, Holcomb M, Cai WJ, Li Q, Wang Y, Xu H, Warner ME, Melman TF, Hoadley KD, Pettay DT, Matsui Y, \*Baumann JH, **Grottoli** AG. Coral calcification under environmental change: a direct comparison of the alkalinity anomaly and buoyant weight techniques. *Coral Reefs* 36: 13-25, <https://doi.org/10.1007/s00338-016-1507-z>
- 2016 (64) Hoadley KD, Pettay KD, **Grottoli** AG, Cai WJ, Melman TF, \*Levas S, \*Schoepf V, Ding Q, Yuan X, Wang Y, Matsui Y, \*Baumann JH, Warner ME. High temperature acclimation strategies within the thermally tolerant endosymbiont *Symbiodinium trenchii* and its coral host, *Turbinaria reniformis*, differ with changing  $p\text{CO}_2$  and nutrients. *Marine Biology* 163:134, <https://doi.org/10.1007/s00227-016-2909-8>
- 2016 (63) \*Williams B, Thibodeau B, Chikaraishi Y, Ohkouchi N, Walnum A, **Grottoli** AG, Colin P. Consistency in coral skeletal amino acid composition offshore of Palau in the western Pacific warm pool indicates no impact of decadal variability in nitricline depth on primary productivity. *Limnology and Oceanography* 62:399-407, <https://doi.org/10.1002/lno.10364>
- 2016 (62) \*Levas SJ, **Grottoli** AG, \*Schoepf V, Aschaffenburg M, \*Baumann J, Bauer JE, Warner M. Can heterotrophic uptake of DOC and zooplankton mitigate C budget deficits in annually bleached corals? *Coral Reefs* 35:495-506, <https://doi.org/10.1007/s00338-015-1390-z>
- 2016 (61) Cai WJ, Ma Y, Hopkinson B, **Grottoli** A, Warner M, Ding Q, Hu X, Yuan X, \*Schoepf V, Xu H, Han C, Melman T, Hoadley K, Pettay DT, Matsui Y, \*Baumann J, \*Levas S, Ye Y, Wang Y. Microelectrode characterization of coral daytime interior pH and carbonate chemistry. *Nature Communications* 7:11144, <https://doi.org/10.1038/ncomms11144>
- Press release by OSU, UD, Altmetric = 53
- 2016 (60) LaVigne M, **Grottoli** AG, \*Palardy J, Sherrell RM. Multi-colony calibrations of coral Ba/Ca



with a contemporaneous *in situ* seawater barium record. *Geochimica et Cosmochimica Acta* 179:203-216, <https://doi.org/10.1016/j.gca.2015.12.038>

- 2015 (59) Hoadley KD, Pettay DY, **Grottoli AG**, Cai WJ, Melman TF, \*Schoepf V, Hu X, Li Q, Xu H, Wang Y, Matsui Y, \*Baumann JH, Warner ME. Physiological response to elevated temperature and  $p\text{CO}_2$  varies across four Pacific coral species: Understanding the unique host+symbiont response. *Nature Scientific Reports* 5:18371, <https://doi.org/10.1038/srep18371>
- 2015 (58) \*Schoepf V, **Grottoli AG**, \*Levas SJ, Aschaffenburg MD, \*Baumann J, Matsui Y, Warner ME. Annual coral bleaching can impair the long-term recovery capacity of coral. *Proceedings of the Royal Society B* 282 (1819): 20151887. <https://doi.org/10.1098/rspb.2015.1887>  
 ➤ Covered by: OSU press release, Science World Report, Climate Wire, EurekaAlert!, others  
 ➤ Altmetric = 86
- 2015 (57) Andersson AJ, Kline DI, Edmunds PJ, Archer SD, Bednarsek N, Carpenter RC, Chadsey M, Goldstein P, **Grottoli AG**, Hurst TP, King AL, Kubler JE, Kuffner IB, Mackey KRM, Menge BA, Paytan A, Reibesell U, Schnetzer A, Warner ME, Zimmerman RC. Understanding ocean acidification impacts on organismal to ecological scales. *Oceanography* 28(2):16–27, <https://doi.org/10.5670/oceanog.2015.27>
- 2015 (56) \*Tanaka Y, **Grottoli AG**, Matsui Y, Suzuki A, Sakai K. Partitioning of nitrogen sources to coral algal endosymbionts with long-term  $^{15}\text{N}$ -labelling and a mixing model. *Ecological Modeling* 309-310: 163-169, <https://doi.org/10.1016/j.ecolmodel.2015.04.017>
- 2015 (55) \*Levas, S, **Grottoli AG**, Warner ME, Cai WJ, Bauer J, \*Schoepf V, Matsui Y, \*Baumann JH, Melman TF, Hoadley KD, Pettay DT, Q Li, Hu X, Wang Y. Organic carbon fluxes mediated by corals at elevated  $p\text{CO}_2$  and temperature. *Marine Ecology Progress Series*, 519:153-164, <https://doi.org/10.3354/meps11072>
- 2014 (54) \*Schoepf V, McCulloch MT, Warner ME, \*Levas SJ, Matsui Y, Aschaffenburg D, **Grottoli AG**. Short-term coral bleaching is not recorded by skeletal boron isotopes. *PLoS One* 9(11): e112011. <https://doi.org/10.1371/journal.pone.0112011>
- 2014 (53) \*Baumann J, **Grottoli AG**, \*Hughes AD, Matsui Y. Photoautotrophic and heterotrophic carbon in bleached and non-bleached coral lipid acquisition and storage. *Journal of Experimental Marine Biology and Ecology*. 461: 469-478. <https://doi.org/10.1016/j.jembe.2014.09.017>
- 2014 (52) \*Schoepf B, \*Levas SJ, Rodrigues LJ, \*McBride MO, Aschaffenburg MD, Matsui Y, Warner ME, Hughes A, **Grottoli AG**. Kinetic and metabolic isotope effects in coral skeletal carbon isotopes: a re-evaluation using experimental coral bleaching as a case study. *Geochimica et Cosmochimica Acta*. 146: 164-178. <https://doi.org/10.1016/j.gca.2014.09.033>
- 2014 (51) **Grottoli AG**, Warner ME, \*Levas SJ, Aschaffenburg M, \*Schoepf V, McGinley M, \*Baumann J, Matsui Y. The cumulative impact of annual coral bleaching turns some coral species winners into losers. *Global Change Biology* 20(12):3823-3833, <https://doi.org/10.1111/gcb.12658>  
 ➤ Covered by: OSU Press release  
 ➤ NSF Science 360, SciGuru, Smithsonian , Ensia  
 ➤ Altmetric = 72
- 2013 (50) \*Hughes A, **Grottoli AG**. Heterotrophic compensation: A possible mechanism for resilience of coral reefs to global warming or a sign of prolonged stress? *PLoS ONE* 8(11): e81172, <https://doi.org/10.1371/journal.pone.0081172>

- 2013 (49) \*Schoepf V, **Grottoli** AG, Warner ME, Cai W-J, Melman T, Hoadley K, Pettay D, Hui X, Li Q, Xu H, Wang Y, Matsui Y, \*Baumann JH. Coral energy reserves and calcification in a high-CO<sub>2</sub> world at two temperatures. *PLoS ONE* 8(10): e75049, <https://doi.org/10.1371/journal.pone.0075049>
- 2013 (48) **Grottoli** AG, \*Matthews KA, \*Palardy JE, McDonough WF. High resolution coral Cd measurements using LA-ICP-MS and ID-ICP-MS: Calibration and interpretation. *Chemical Geology*, 365: 151-159, <https://doi.org/10.1016/j.chemgeo.2013.08.024>
- 2013 (47) \*Levas S, **Grottoli** AG, \*Hughes A, Osburn C, Matsui Y. Physiological and biogeochemical traits of bleaching and recovery in the mounding species of coral *Porites lobata*: implications for resilience in mounding corals. *PLoS ONE* 8(5): e63267, <https://doi.org/10.1371/journal.pone.0063267>
- 2013 (46) \*Moyer RP, **Grottoli** AG, Bauer JE. Carbon isotope biogeochemistry of tropical small mountainous river, estuarine, and coastal systems of Puerto Rico. *Biogeochemistry* 112(1-3): 589-612, <https://doi.org/10.1007/s10533-012-9751-y>
- 2013 (45) Padilla-Gamiño JL, Bidigare R, Barshis, Alamaru A, Hedouin L, Hernandez-Pech X, Kandel F, Soon SL, Roth M, Rodrigues L, **Grottoli** AG, Portocarrero C, Wagenhouser S, Buttler F, Gates RD. Are all eggs created equal? A case study from the Hawaiian reef building coral *Montipora capitata*. *Coral Reefs* 32(1): 137-152, <https://doi.org/10.1007/s00338-012-0957-1>
- 2012 (44) \*Moyer RP, **Grottoli** AG, Olesik J. A multi-proxy record of terrestrial inputs to the coastal ocean using minor and trace elements (Ba/Ca, Mn/Ca, Y/Ca) and carbon isotopes ( $\delta^{13}\text{C}$ ,  $\Delta^{14}\text{C}$ ) in a nearshore coral from Puerto Rico. *Paleoceanography* 27(3): PA3205, <https://doi.org/10.1029/2011PA002249>
- 2011 (43) Hennige SJ, McGinley M, **Grottoli** AG, Warner ME. Photoinhibition of *Symbiodinium* spp. within the reef corals *Montastraea faveolata* and *Porites astreoides*: implications for coral bleaching. *Marine Biology* 158(11): 2515-2526, <https://doi.org/10.1007/s00227-011-1752-1>
- 2011 (42) Kilbourne KH, \*Moyer RP, Quinn TM, **Grottoli** AG. Testing coral-based tropical cyclone reconstructions: an example from Puerto Rico. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 1307(1-4): 90-97, <https://doi.org/10.1016/j.palaeo.2011.04.027>
- 2011 (41) **Grottoli** AG, \*Rodrigues LJ. Bleached *Porites compressa* and *Montipora capitata* corals catabolise  $\delta^{13}\text{C}$ -enriched lipids. *Coral Reefs* 30(3):687-692, <https://doi.org/10.1007/s00338-011-0756-0>
- 2011 (40) \*Moyer RP, **Grottoli** AG. Coral Skeletal Carbon Isotopes ( $\delta^{13}\text{C}$  &  $\Delta^{14}\text{C}$ ) Record the Delivery of Terrestrial Carbon to the Coastal Waters of Puerto Rico. *Coral Reefs* 30(3): 791-802, data repository; <https://doi.org/10.1007/s00338-011-0758-y>
- 2011 (39) \*Williams B, **Grottoli** AG. Solution and laser ablation (LA) inductively coupled plasma-mass spectrometry measurements of Br, I, Pb, Mn, Cd, Zn, and B in the organic skeleton of soft corals and black corals. *Geochemistry, Geophysics, and Geosystems* 12(3): Q03011, <https://doi.org/10.1029/2010GC003375>
- 2010 (38) \*Hughes AD, **Grottoli** AG, Pease TK, Matsui Y, Acquisition and assimilation of carbon in non-bleached and bleached corals. *Marine Ecology Progress Series* 420: 91–101, <https://doi.org/10.3354/meps08866>

- 2010 (37) \*Williams B, **Grottoli AG**, Recent shoaling of the nutricline and thermocline in the western tropical Pacific. *Geophysical Research Letters* 37(2): L22601, <https://doi.org/10.1029/2010GL044867>  
 ➤ Covered by Nature Research Highlights, Australian Broadcasting Company, AGU, MsNBC, USA Today, World News, Science Daily, Others.
- 2010 (36) \*Williams B, **Grottoli AG**, Stable nitrogen and carbon isotope ( $\delta^{15}\text{N}$  and  $\delta^{13}\text{C}$ ) variability in shallow tropical Pacific soft coral and black coral taxa and implications for paleoceanographic reconstructions. *Geochimica et Cosmochimica Acta* 74(18):5280-88, <https://doi.org/10.1016/j.gca.2010.06.026>
- 2010 (35) LaVigne M, \*Matthews KA, **Grottoli AG**, Cobb KM, Anagnostou E, Cabioch G, Sherrell RM. Coral skeleton P/Ca proxy for seawater phosphate: multi-colony calibration with a contemporaneous seawater phosphate record. *Geochimica et Cosmochimica Acta* 74(4):1282-1293, <https://doi.org/10.1016/j.gca.2009.11.002>
- 2010 (34) **Grottoli AG**, Adkins JF, Panero W, Reaman D, Moots K. Growth rates, stable oxygen isotopes ( $\delta^{18}\text{O}$ ), and strontium (Sr/Ca) composition in two species of Pacific sclerosponges (*Acanthocheatetes wellsi* and *Astroclera willeyana*) with  $\delta^{18}\text{O}$  calibration and application to paleoceanography. *Journal of Geophysical Research - Oceans* 115(6): C06008, <https://doi.org/10.1029/2009JC005586>, Data repository: <https://www.nci.noaa.gov/access/paleo-search/study/38439>
- 2010 (33) \*Wu H, **Grottoli AG**. Stable oxygen isotope records of corals and a sclerosponge in the Western Pacific warm pool. *Coral Reefs* 29(2): 413-418, <https://doi.org/10.1007/s00338-009-0576-7>
- 2010 (32) Lesser MP, Ojimi M, Gates R, Stat M, Slattery M, **Grottoli AG**. Photoacclimatization by the Coral *Montastraea cavernosa* in the Mesophotic Zone: Light, Food, and Genetics. *Ecology* 91(4):990-1003, <https://doi.org/10.1890/09-0313.1>
- 2009 (31) \*Adler RE, Polyak L, Ortiz JD, Kaufman DS, Channell JET, Xuan C, **Grottoli AG**, Sellen E, Crawford KA. Sediment record from the western Arctic Ocean with an improved Late Quaternary age resolution: HOTRAX core HLY0503-8JPC, Mendeleev Ridge. *Global and Planetary Change*. 68(1-2):18-29, <https://doi.org/10.1016/j.gloplacha.2009.03.026>
- 2009 (30) Fitt WK, Gates R, Hoegh-Guldberg O, Bythell J, Jatkar A, **Grottoli AG**, Gomez M, Fisher P, Franklin D, Lajeunesse T, Pantos O, Iglesias-Prieto R, \*Rodrigues LJ, Torregiani JM, van Woesik R, Lesser MP. Response of two species of Indo-Pacific corals, *Porites cylindrica* and *Stylophora pistillata*, to thermal stress: the host does matter in determining the tolerance of corals to bleaching. *Journal of Experimental Marine Biology and Ecology* 373(2): 102-110, <https://doi.org/10.1016/j.jembe.2009.03.011>
- 2009 (29) Anthony KRN, Hoogenboom M, Maynard J, **Grottoli AG**, Middlebrook R. Energetics approach to predicting mortality risk from environmental stress: a case study of coral bleaching. *Functional Ecology* 23(3):539-550, <https://doi.org/10.1111/j.1365-2435.2008.01531.x>
- 2008 (28) \*Palardy JE, \*Rodrigues LJ, **Grottoli AG**. The importance of zooplankton to the daily metabolic carbon requirements of healthy and bleached corals at two depths. *Journal of Experimental Marine Biology and Ecology*. 367(2):180-188, <https://doi.org/10.1016/j.jembe.2008.09.015>

- 2008 (27) \*Matthews KA, **Grottoli AG**, McDonough, \*Palardy JE. Upwelling, species, and depth effects on coral skeletal cadmium-to-calcium ratios (Cd/Ca). *Geochimica et Cosmochimica Acta*. 72 (18): 4537-4550, <https://doi.org/10.1016/j.gca.2008.05.064>
- 2008 (26) \*Rodrigues LJ, **Grottoli AG**, Lesser MP. Long-term changes in the chlorophyll fluorescence of bleached and recovering corals from Hawaii. *Journal of Experimental Biology*. 211(15): 2502-2509, <https://doi.org/10.1242/jeb.012369>
- 2008 (25)\*Rodrigues LJ, **Grottoli AG**, Pease T. Lipid class composition of bleached and recovering *Porites compressa* Dana, 1846 and *Montipora capitata* Dana, 1846 corals from Hawaii. *Journal of Experimental Marine Biology and Ecology* 358 (2): 136-143, <https://doi.org/10.1016/j.jembe.2008.02.004>
- 2008 (24) LaVigne M, Field MP, Anagnostou E, **Grottoli AG**, Wellington GM, Sherrell RM Skeletal P/Ca tracks upwelling in Gulf of Panamá coral: Evidence for a new seawater phosphate proxy. *Geophysical Research Letters* 35(5): L05604, <https://doi.org/10.1029/2007GL031926>  
 ➤ Editor's Choice in Science (2008, 319:1590-1591) and AGU Choice Highlights
- 2007 (23) Narayanan V, Anirudhan S, **Grottoli AG**. Oxygen and carbon isotope analysis of the Miocene limestone of Kerala and its implications to paleoclimate and its depositional setting. *Current Science* 93(8): 1155-1159, [https://www.currentscience.ac.in/Downloads/article\\_id\\_093\\_08\\_1155\\_1159\\_0.pdf](https://www.currentscience.ac.in/Downloads/article_id_093_08_1155_1159_0.pdf)
- 2007 (22) \*Rodrigues LJ, **Grottoli AG**. Energy reserves and metabolism as indicators of coral recovery from bleaching. *Limnology and Oceanography* 52(5): 1874-1882, <https://doi.org/10.4319/lo.2007.52.5.1874>
- 2007 (21) **Grottoli AG**, Eakin M. A review of modern coral  $\delta^{18}\text{O}$  and  $\Delta^{14}\text{C}$  proxy records. *Earth – Science Reviews* 81(1-2): 67-91, <https://doi.org/10.1016/j.earscirev.2006.10.001>
- 2006 (20) \*Matthews KA, McDonough W, **Grottoli AG**. Cadmium measurements in coral skeleton using isotope dilution-inductively coupled plasma-mass spectrometry. *Geochemistry, Geophysics, and Geosystems*, 7(11): Q11021, <https://doi.org/10.1029/2006GC001352>
- 2006 (19) Eakin CM, **Grottoli AG**. Coral reef records of past climate change. In: *Coral Reefs and Climate Change: Science and Management* [eds. Phinney, J., Skirving, W., Kleypas, J., Hoegh-Guldberg, O., Strong, A.E.], AGU publishers, Coastal and Estuarine Studies 61:33-54, <https://doi.org/10.1029/61CE04>
- 2006 (18) **Grottoli AG**, \*Rodrigues LJ, \*Palardy JE. Heterotrophic plasticity and resilience in bleached corals. *Nature* 440(7088): 1186-1189, <https://doi.org/10.1038/nature04565>  
 ➤ Covered by NPR (Science Fridays), Quirks and Quarks radio show (CBC Radio Canada), Discovery Channel News, Washington Post, Scientific American, OSU Today, Columbus Dispatch, and others, Altmetric = 44
- 2006 (17) **Grottoli AG**. Monthly resolved stable oxygen isotope record in a Palauan sclerosponge *Acanthocheatetes wellsi* for the period of 1977-2001. *Proceedings of the 10<sup>th</sup> International Coral Reef Symposium*, pp. 572-579, [http://www.reefbase.org/resource\\_center/publication/icrs.aspx?icrs=ICRS10](http://www.reefbase.org/resource_center/publication/icrs.aspx?icrs=ICRS10)
- 2006 (16) \*Rodrigues L, **Grottoli AG**. Lipids and chlorophyll in bleached and recovering *Montipora capitata* from Hawaii: An experimental approach. *Proceedings of the 10<sup>th</sup> International Coral Reef Symposium*, pp. 696-701,

[http://www.reefbase.org/resource\\_center/publication/icrs.aspx?icrs=ICRS10](http://www.reefbase.org/resource_center/publication/icrs.aspx?icrs=ICRS10)

- 2006 (15) \*Rodrigues LJ, **Grottoli** AG. Calcification rate and the stable carbon, oxygen, and nitrogen isotopes in the skeleton, host tissue, and zooxanthellae of bleached and recovering Hawaiian corals. *Geochimica et Cosmochimica Acta* 70(11): 2781- 2789, <https://doi.org/10.1016/j.gca.2006.02.014>
- 2006 (14) \*Palardy JE, **Grottoli** AG, \*Matthews KA. Effect of naturally changing zooplankton concentrations on feeding rates of two coral species in the Eastern Pacific. *Journal of Experimental Marine Biology and Ecology*, 331(1):99-107, <https://doi.org/10.1016/j.jembe.2005.10.001>
- 2005 (13) **Grottoli** AG, \*Rodrigues LJ, \*Matthews KA, \*Palardy JE, Gibb O. Pre-treatment effects on coral skeletal  $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$ . *Chemical Geology* 221(3-4):225-242, <https://doi.org/10.1016/j.chemgeo.2005.05.004>
- 2005 (12) \*Palardy JE, **Grottoli** AG, \*Matthews K. Effects of upwelling, depth, morphology and polyp size on feeding in three species of Panamanian corals. *Marine Ecology Progress Series* 300:79-89, <https://doi.org/10.3354/meps300079>
- 2004 (11) **Grottoli** AG, \*Rodrigues LJ, \*Juarez C. Lipids and stable carbon isotopes in two species of Hawaiian corals, *Porites compressa* and *Montipora verrucosa*, following a bleaching event. *Marine Biology* 145(3): 621-631, <https://doi.org/10.1007/s00227-004-1337-3>
- 2004 (10) Hönisch B, Hemming NG, **Grottoli** AG, Amat A, Hanson GN, Bijma J. Assessing scleractinian corals as recorders for paleo-pH: Empirical calibration and vital effects. *Geochimica et Cosmochimica Acta* 68(18): 3675-3685, <https://doi.org/10.1016/j.gca.2004.03.002>
- 2003 (9) **Grottoli** AG, Gille ST, Druffel ERM, Dunbar RB. Decadal timescale shift the  $^{14}\text{C}$  record of a central equatorial Pacific coral. *Radiocarbon* 45(1): 91-99, <https://doi.org/10.1017/S0033822200032422>
- 2002 (8) **Grottoli** AG. Effect of light and brine shrimp levels on the skeletal  $\delta^{13}\text{C}$  values of the Hawaiian coral *Porites compressa*: a tank experiment. *Geochimica et Cosmochimica Acta* 66(11): 1955-1967, [https://doi.org/10.1016/S0016-7037\(01\)00901-2](https://doi.org/10.1016/S0016-7037(01)00901-2)
- 2001 (7) **Grottoli** AG. Past Climate From Corals. In: *Encyclopedia of Ocean Sciences: First Edition* [Eds. J Steele, S Thorpe, K Turekian], Academic Press, London pp. 338-347, <https://doi.org/10.1006/rwos.2001.0270>
- 2000 (6) **Grottoli** AG. Stable carbon isotopes ( $\delta^{13}\text{C}$ ) in coral skeletons. *Oceanography* 13:93-97, <https://doi.org/10.5670/oceanog.2000.39>
- 1999 (5) **Grottoli** AG. Variability in stable isotopes and maximum linear skeletal extension in reef corals in Kaneohe Bay, Hawaii. *Marine Biology* 135(3): 437-449, <https://doi.org/10.1007/s002270050644>
- 1999 (4) **Grottoli** AG, Wellington GM. Effects of light and zooplankton on skeletal  $\delta^{13}\text{C}$  values in the Eastern Pacific corals *Pavona clavus* and *P. gigantea*. *Coral Reefs* 18(1):29-41, <https://doi.org/10.1007/s003380050150>  
 ➤ Best Paper Award: International Coral Reef Society in 2000
- 1997 (3) **Grottoli**-Everett AG, Wellington GM. Fish predation on the scleractinian coral *Madracis mirabilis* controls its depth distribution in the Florida Keys. *Marine Ecology Progress Series* 160:

291-293, <https://doi.org/10.3354/meps160291>

- 1995 (2) **Grottoli**-Everett AG. Bleaching and lipids in the Pacific coral *Montipora verrucosa*. In *Ultraviolet Radiation & Coral Reefs*. [eds: Gulko D, Jokiel PL], Sea Grant Publication UNIH-SEAGRANT-CR-95-03, Hawaii Institute of Marine Biology Technical Report #41:107-113
- 1995 (1) **Grottoli**-Everett AG, Kuffner I. Uneven bleaching within colonies of the Hawaiian coral *Montipora verrucosa*. In *Ultraviolet Radiation & Coral Reefs*. [eds: Gulko D, Jokiel PL], Sea Grant Publication UNIH-SEAGRANT-CR-95-03, Hawaii Institute of Marine Biology Technical Report #41:115-120

## DISSERTATION

**Grottoli**-Everett (1998) Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction. PhD Dissertation. University of Houston p.225

## NON PEER-REVIEWED PUBLICATIONS (\*=student advisee)

### Published Protocols

- 2024 (9) McLachlan RH, Grottoli AG, Vega Thurber R. Quantification of Coral Chlorophyll Using Shimadzu UV-VIS 2450 Spectrophotometer. *Protocols.io*. [dx.doi.org/10.17504/protocols.io.14egn62pzl5d/v1](https://doi.org/10.17504/protocols.io.14egn62pzl5d/v1)
- 2021 (8) \*McLachlan RH, \*Patel A, **Grottoli** AG Measuring Coral Skeletal Architecture Using Image Analysis. *Protocols.io*. [dx.doi.org/10.17504/protocols.io.bx5bpq2n](https://doi.org/10.17504/protocols.io.bx5bpq2n)
- 2021 (7) \*McLachlan RH and **Grottoli** AG. Image Analysis to Quantify Coral Bleaching Using Greyscale Model. *Protocols.io*, [dx.doi.org/10.17504/protocols.io.bx8wprxe](https://doi.org/10.17504/protocols.io.bx8wprxe)
- 2021 (6) \*McLachlan RH, **Grottoli** AG. Geometric Method for Estimating Coral Surface Area Using Image Analysis. *Protocols.io* [https://dx.doi.org/10.17504/protocols.io.bpxcmpiw](https://doi.org/10.17504/protocols.io.bpxcmpiw)
- 2020 (5) \*Price J, \*Smith A, \*Dobson K, **Grottoli** AG. Airbrushed coral sample preparation for organic stable carbon and nitrogen isotope analysis. *Protocols.io* [dx.doi.org/10.17504/protocols.io.bgi7juhn](https://doi.org/10.17504/protocols.io.bgi7juhn)
- Featured on protocols.io welcome page
- 2020 (4) \*McLachlan RH, \*Dobson KL, **Grottoli** AG. Quantification of Total Biomass in Ground Coral Samples. *Protocols.io*. [https://dx.doi.org/10.17504/protocols.io.bdyai7se](https://doi.org/10.17504/protocols.io.bdyai7se)
- Featured on protocols.io welcome page
- 2020 (3) \*McLachlan RH, \*Price J, \*Dobson KL, Weisleder N, **Grottoli** AG. Microplate Assay for Quantification of Soluble Protein in Ground Coral Samples. *Protocols.io*. [dx.doi.org/10.17504/protocols.io.bdc8i2zw](https://doi.org/10.17504/protocols.io.bdc8i2zw)
- 2020 (2) \*McLachlan RH, \*Juracka C, **Grottoli** AG. Symbiodiniaceae Enumeration in Ground Coral Samples Using Countess™ II FL Automated Cell Counter. *Protocols.io*. [dx.doi.org/10.17504/protocols.io.bdc5i2y6](https://doi.org/10.17504/protocols.io.bdc5i2y6)
- 2020 (1) \*McLachlan RH, Munoz-Garcia A, **Grottoli** AG. Extraction of Total Soluble Lipid from Ground Coral Samples. *Protocols.io*. [dx.doi.org/10.17504/protocols.io.bc4qiyvw](https://doi.org/10.17504/protocols.io.bc4qiyvw)
- Featured on protocols.io welcome page

### Other Publications



- 2024 Baums IB, Baker A, Davies SW, Grottoli A, Kenkel CD, Kitchen SA, Kuffner IB, Matz MV, Miller MW, Parkinson JE, Prada C, Shantz A. Managing expectations for breeding “super corals”. OSFpreprints <https://doi.org/10.31219/osf.io/vu45p>.
- 2024 Flöter A, Foster GL, Grottoli AG, Swart PK, Williams B, Wörheide G (2024) Hidden from plain sight: sclerosponges as environmental archives of ocean conditions from the surface to the mesophotic zone. *PAGES Magazine* 32(1), doi.org/10.22498/pages.32.1.44
- 2024 Coral Restoration Consortium Genetics Working Group. Safeguarding Florida’s Coral Reefs: The Urgency of assisted Gene Flow for Elkhorn Coral Conservation. Submitted to NOAA
- 2023 **Grottoli AG**. Coral reefs and climate change: we are running out of time. *In: Time: A Multidisciplinary Introduction* [Eds: S Kattan Gribetz & L Kaye], De Gruyter, Berlin, Volume 1, pp. 181- 189. <https://doi.org/10.1515/9783110690774-014>
- 2022 (20) **Grottoli AG**, ICRS President’s Message. *Reef Encounters* vol. 37, number 2, pp. 4-7
- 2021 (19) **Grottoli AG**, 3<sup>rd</sup> Coral Bleaching Research Coordination Network Workshop. *Reef Encounters* vol 36, number 50, p.61
- 2021 (18) Knowlton N, **Grottoli AG**, Kleypas J, Obura D, Corcoran E, de Goeij J, Felis T, Harding S, Mayfield A, Miller M, Osuka K, Peixoto R, Randall CJ, Voolstra CR, Wells S, Wild C, Ferse S. Rebuilding Coral Reefs: A Decadal Grand Challenge. *International Coral Reef Society and Future Earth Coasts*, 56 pp. <https://doi.org/10.53642/NRKY9386>  
 ➤ [Press release](#) by OSU, lead story at Ohio State News
- 2021 (17) Bonar, SA (so-signatories: Avery J, Camacho A, Douglas ME, Gillanders BM, **Grottoli AG**, King A, Murphy BR, Ramirez A, Rzymiski P, Sandu C) Correspondence: More than 100 aquatic-science societies sound climate alarm. *Nature* 589: 352, <https://doi.org/10.1038/d41586-021-00107-x>  
 ➤ Altmetric = 210
- 2021 (16) Grottoli AG, ICRS President’s Welcome. *Reef Encounters* vol 36, number 49, pp. 5-6 <http://coralreefs.org/wp-content/uploads/2021/03/REEF-ENCOUNTER-49-March-2021-High-Res.pdf>
- 2020 (15) **Grottoli AG**, Raising our Voice for Coral Reefs on World Oceans Day. *Ocean Sciences at Springer*. June 2020 <https://www.springer.com/gp/campaigns/world-ocean-day>
- 2020 (15) **Grottoli AG**, President’s Message, *Reef Encounter* vol 35, number 48, p. 4-5 [http://coralreefs.org/wp-content/uploads/2018/12/Reef\\_Encounter\\_Jul\\_2020\\_hi-res.pdf](http://coralreefs.org/wp-content/uploads/2018/12/Reef_Encounter_Jul_2020_hi-res.pdf)
- 2019 (14) **Grottoli AG**, President’s Message. *Reef Encounters* 34:5-6 [http://coralreefs.org/wp-content/uploads/2020/02/REEF\\_ENCOUNTER\\_Dec\\_2019\\_hi-res\\_3.pdf](http://coralreefs.org/wp-content/uploads/2020/02/REEF_ENCOUNTER_Dec_2019_hi-res_3.pdf)
- 2019 (13) **Grottoli AG**, Coral Bleaching Research Coordination Workshop 22<sup>nd</sup>-24<sup>th</sup> May 2019. *Reef Encounters* 34:81 [http://coralreefs.org/wp-content/uploads/2020/02/REEF\\_ENCOUNTER\\_Dec\\_2019\\_hi-res\\_3.pdf](http://coralreefs.org/wp-content/uploads/2020/02/REEF_ENCOUNTER_Dec_2019_hi-res_3.pdf)
- 2018 (12) **Grottoli AG**, John Island and Coral Reefs, *John Island Camp Alumni News Magazine*, Spring 2018 <http://www.johnisland.ymca.ca/images/2018spring%20jic%20newsletter.pdf>
- 2017 (11) **Grottoli AG**, Shum CK, Durand M, Thompson L, Curtis PS, Mark B, Mosley-Thompson E, Cervenec J, Bauer J, Wilson A. Climate Change: March for Science - Columbus, *March for Science - Columbus*, 22 April 2017

- 2016 (10) Warner, M.E., Barshis, D.J., Davies, S.W., **Grottoli**, A.G., LaJeunesse, T.C., van Woesik, R. Investigating coral bleaching in a changing climate: Our state of understanding and opportunities to push the field forward. *Report of the NSF U.S. Investigator Workshop on Coral Bleaching*, June 17–18, 2016. Hawaii Prince Hotel, Honolulu, HI, 26 pp, <https://www.bco-dmo.org/project/713297>
- 2016 (9) **Grottoli** AG, Warner ME. National Science Foundation US Investigators Coral Bleaching workshop. *Reef Encounters* 31(2):61-61
- 2016 (8) **Grottoli** AG. Faculty profile: Andréa Grottoli in *School of Earth Sciences News and Notes* newsletter. August edition, pp. 3-4.
- 2015 (7) **Grottoli** AG. As the Earth enters its third mass bleaching event, will corals survive?, *The Conversation*, 20 Nov 2015, <https://theconversation.com/as-the-earth-enters-its-third-mass-bleaching-event-will-corals-survive-50740>  
 ➤ 9,390 unique readers  
 ➤ republished by IFLScience, The Huffington Post, Honolulu Civil Beat, Epoch Times
- 2011 (6) **Grottoli** AG. Ocean Explorers Tank Guide. A picture book, reference guide, and poster to accompany the live saltwater coral tank at the Batelle Discovery Center.
- 2008 (5) \*Williams B, **Grottoli** AG. Attempts to culture and monitor growth rates in deep-water antipatharians and gorgonians. In: *Characterization of Northern Gulf of Mexico Deepwater Hard Bottom Communities with Emphasis on Lophelia Coral - Lophelia Reef Megafaunal Community Structure, Biotopes, Genetics, Microbial Ecology, and Geology*. [Eds KJ Sulak, MT Randall, KE Luke, AD Norem, JM Miller]. USGS Open-File Report 2008-1148; OCS Study MMS 2008-015, 15 April 2008, <https://doi.org/10.3133/ofr20081148>
- 2006 (4) **Grottoli** AG. Acceptance of the 2004 W.F. Clarke Award. *Geochimica et Cosmochimica Acta* 70(18 suppl.): S17-S18.
- 2004 (3) **Grottoli** AG, \*Rodrigues LJ, \*Juarez C. Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition. In: *The effects of combined sea temperature, light, and carbon dioxide on coral bleaching, settlement and growth* [Ed. JC Hendee]. NOAA Research Special Report (February, 2004), Silver Spring, MD, p. 661-64, <https://lccn.loc.gov/2004368977>
- 2004 (2) **Grottoli** AG. ICRS Workshop Participants (2004). 10<sup>th</sup> ICRS Pre-Symposium Workshop on Coral Reefs and Global Change. *Reef Encounter* 32: 63-64, <http://coralreefs.org/wp-content/uploads/2019/01/Reef-Encounter-32-Apr-2004.pdf>
- 2003 (1) Swart PK, **Grottoli** A. Proxy indicators of climate in coral skeletons: a perspective. *Coral Reefs* 22(4): 313-315, <https://doi.org/10.1007/s00338-003-0332-3>

### **MANSUSCRIPTS IN REVIEW AND IN PREP (\* = my student advisees)**

**Grottoli** AG, \*Hulver AM, Vega Thurber R, Toonen R, Schmeltzer ER, Kuffner IB, Barott KL, Baums IB, Castillo KD, \*Chapron L, Coffroth MA, Combosch DJ, Correa AMS, Crandall E, Donahue M, Eirin-Lopez J, Felis T, Ferrier-Pages C, Harrison HB, Heron SF, Huang D, Humanes A, Kenkel CD, Krueger T, Madin J, Matz MV, McManus LC, Muller EM, Padilla-Gamino JL, Putnam HM, Sawall Y, Shlesinger T, Sweet MJ, Voolstra CR, Weis VM, Wild C, Wu HC (submitted) The future of coral bleaching research. *BioScience*

- Hulver AM, Teixido N, Kemp DW, Keister EF, Gattuso JP, **Grottoli AG** (in prep) High heterotrophic capacity favors Mediterranean coral success in the face of ocean acidification. *Ecology*
- \*Hulver AM, \*Watson Z, \*McLachlan R, **Grottoli AG** (in prep) Relationship between Symbiodiniaceae chlorophyll *a* and cell density in scleractinian corals across regions, species, and health status. *Coral Reefs*
- \*Dixon S, Jorissen H, \*Hulver AM, Welter J, Toonen R, R3D Consortium, Madin J, **Grottoli AG** (in prep) Coral recruit survivorship and growth increases with Underwater Zooplankton Light Enhancement Array (UZELA) supplemental feeding coupled with dome-shaped settlement modules.
- Flöter S, Foster GL, Grottoli AG, Swart PK, Williams B, Wörheide G (in prep) Sclerosponges as archives of environmental change. *Earth Sciences Reviews*
- Schopef V, Grottoli AG, McLachlan RH, Price JT, Jury CP, Toonen RJ, McCulloch MT (in prep) Coral calcification mechanisms and trace element composition across a natural environmental mosaic in Hawaii. *Limnology & Oceanography*

### FUNDED GRANTS AND FELLOWSHIPS

- 2024-2025 **University of Hawaii Foundation**, Underwater Zooplankton Enhancing Light Array (UZELA): Technological intervention to enhance coral feeding, growth, and survivorship. **Partner project under the DARPA Rapid Resilient Reefs for coastal Defense (R3D) project TA3-** Adaptive Biology section (Jones lead-PI, Grant total \$31,560,423) Grottoli AG (PI) \$79,310 (renewable)
- 2024-2025 **Ohio Third Frontier**, OSU Accelerator Award – UZELA (Underwater Zooplankton enhancement Light Array). Grottoli AG (PI) \$117,247 (18 Sept 2024 – 31 Oct 2025)
- 2024-2025 **Coral Restoration Foundation** – Feeding nursery corals with UZELA. Grottoli AG (PI) \$19,964
- 2023-2026 **National Science Foundation** – Infrastructure Innovation for Biological Research (DBI 2316800), Collaborative Research: CoralReef3D – An open-source toolkit for underwater 3D ecosystem modeling and analysis. Qin R (lead PI), Grottoli AG (co-PI), Porter JW \$880,946 (\$221,244 to Grottoli).
- 2022-2023 **University of Hawaii Foundation**, Underwater Zooplankton Enhancing Light Array (UZELA): Technological intervention to enhance feeding and protect corals from heat stress. **Partner project under the DARPA Rapid Resilient Reefs for coastal Defense (R3D) project TA3-** Adaptive Biology section (Jones lead-PI, Grant total \$31,560,423) Grottoli AG (PI) \$227,000 (renewable)
- 2020-2021 **Fulbright Fellowship**, all disciplines award (research) (Franco-American Commission for Educational Exchange) €16,800 (delayed to 2021-2022 due to covid)
- 2020-2022 **Cooperative Ecosystem Studies Units (CESU) -Unites States Geological Survey** (G19AC00418), Biological and oceanographic processes impacting the persistence of the threatened *Acropora palmata* coral in Dry Tortugas national Park (sole PI) \$99,772
- 2019-2023 **National Science Foundation** - Biological Oceanography (OCE 1838667), RCN:Coral Bleaching Research Coordination Network. Grottoli AG (sole PI) \$499,828 + \$40,000 supplement. Grottoli is the Director of the Network.
- 2018-2019 **HW Hoover Foundation**, Educating and inspiring the next generation of coral conservation scientists (part II). Grottoli AG (sole PI) \$84,909
- 2016-2018 **HW Hoover Foundation**, Educating and inspiring the next generation of coral conservation scientists. Grottoli AG (sole PI) \$74,991

- 2015-2019 **National Science Foundation** – Biological Oceanography (OCE 1459536), Phenotype and genotype of coral adaptation and acclimatization to global change (with no cost extension to 2020). AG Grottoli (lead PI), \$348,133.
- 2014-2017 **National Science Foundation** – Biological Oceanography (OCE 1514859) RAPID collaborative proposal: Will corals recover from bleaching under ocean acidification conditions? Grottoli AG (lead PI, \$158,420), Toonen RJ (\$27,880).
- 2010-2014 **National Science Foundation** – (EF 1041124) Collaborative Research: Ocean Acidification Category 1: Interactive Effects of Temperature, Nutrients, and Ocean Acidification on Coral Holobiont Physiology and Calcification. Grottoli AG (lead PI), Cai W-J, Warner M \$1,077,588 (amount to Grottoli \$367,800).
- 2012-2013 **PADI Foundation**, Protection for corals from global warming? (CGA# 6314), Grottoli AG, \$8,440
- 2009-2012 **National Science Foundation** – Biological Oceanography (OCE 0825490), Collaborative Research: Physiology and Biogeochemistry of Repeatedly Bleached and Recovering Caribbean Corals. AG Grottoli (lead PI) and M Warner \$764,935 (amount to Grottoli \$388,374).
- 2009 **National Science Foundation** – EAR Instrumentation and Facilities (EAR 0930016), Acquisition of a liquid water isotope analyzer for hydrological, glaciological and geochemical research. Lead PI: AE Carey, Co-PIs: AG Grottoli, IM Howat, WB Lyons, BG Mark \$57,700.
- 2008-2010 **Ohio State University** Carbon, Water, and Climate Seed Grant Program, Natural Variability and Sources of Dissolved and Particulate Carbon in Streams of Various Land-Use Types Within the Coshocton, OH Watershed. AG Grottoli (sole PI) \$52,973
- 2007-2009 **Mellon Foundation**, Natural variability and history of the transfer of terrestrial carbon to the coastal ocean in Puerto Rico. AG Grottoli (sole PI) \$75,000.
- 2005-2009 **National Science Foundation** – Division of Biological Oceanography (OCE0542415), Collaborative research: Acquisition, allocation, and utilization of carbon in bleached and recovering corals. AG Grottoli (lead PI) & TK Pease \$667,660 (amount to Grottoli \$329,780).
- 2004-2007 **National Science Foundation** Division of Chemical Oceanography (OCE0426022 and 0610487), Stable Isotopes and strontium in western Pacific sclerosponges: calibration and applications to paleoceanography, AG Grottoli (sole PI) \$195,249.
- 2004-2006 **Petroleum Research Foundation**, Cadmium and barium in corals: a field study. AG Grottoli (sole PI) \$35,000.
- 2004-2006 **Mellon Foundation**, What is the Effect of Land Use Change on the Carbon Cycle in Puerto Rico? AG Grottoli (sole PI) \$75,000.
- 2004 **Woodrow Wilson National Fellowship**, Career Enhancement Fellowship for Junior Faculty. AG Grottoli \$31,500 and one year of teaching relief.
- 2004 **Trustees Council of Penn Women** Summer Faculty Research Fellowship, Effects of Terrestrially Derived Sediments on Corals in the Guanica Preserve, Puerto Rico over the past century. AG Grottoli (sole PI) \$5000.
- 2004 **University of Pennsylvania Research Foundation**, Late Holocene climate inferred from fossil corals of the Gulf of Aqaba (Red Sea). AG Grottoli (sole PI) \$25,000.
- 2003-2004 **American Society of Mass Spectrometry** Research Award, Developing new geochemical tools for paleoclimate reconstruction: *In situ* calibration of stable isotopes in western tropical Pacific sclerosponges. AG Grottoli (sole PI) \$25,000.
- 2002-2003 **University of Pennsylvania Research Foundation**, Upwelling records in corals: a multi-

- proxy approach. AG Grottoli (sole PI) \$25,000.
- 2001-2002 **University of Pennsylvania Research Foundation**, Sclerosponge and paleoclimate reconstruction. AG Grottoli (sole PI) \$28,000.
- 1999-2001 **National Ocean and Atmospheric Association** Global Programs, Identification and modeling of seasonal to decadal timescale variations in the zonal currents of the central equatorial Pacific. ERM Druffel (lead PI), ST Gille (co-PI), AG Grottoli (co-PI) \$179, 675.
- 1999-2000 **Dreyfus Postdoctoral Fellowship** in Environmental Chemistry, AG Grottoli \$80,000.
- 1999-2000 **PADI Foundation**, Coral bleaching. AG Grottoli (sole PI) \$8,858.
- 1996-1998 **Environmental Protection Agency** Graduate Students to Achieve Results (STAR) Fellowship, Paleoclimate Reconstruction via Stable Carbon Isotopes ( $\delta^{13}\text{C}$ ) in Reef Coral Skeletons. AG Grottoli \$75,000.

### PROPOSALS PENDING

- 2025-2026 **DARPA Rapid Resilient Reefs for coastal Defense (R3D)** - Underwater Zooplankton Enhancing Light Array (UZELA): Technological intervention to enhance coral feeding, prevent coral bleaching, and minimize coral mortality. (Jones lead-PI, Grant total \$31,560,423) Grottoli AG (PI) \$225,357

### TEACHING EXPERIENCE

(UG = undergraduate students, G = Graduate students, E = typical enrollment numbers)

#### *The Ohio State University (2005 – present):*

Advanced Oceanography (UG, G, E25)	Intro to Earth System Science (UG, E150)
Principles of Oceanography (UG, E50-80)	Stable Isotope Biogeochemistry (UG, G, E15)
Carbonate Geology (UG, G, E15)	Carbonate Geology Field Course (UG, G, E15)
Seminar Limnol. & Oceanogr (G, E8)	Pauley Summer Research Program (G, E15)
School of Earth Sciences Colloquium	Independent Study Mentor (UG, G)
Senior Thesis (UG, E2)	Senior Thesis Research (UG, E4)
Global & Environmental Change Div. Seminar	

#### *University of Pennsylvania (2001 – 2004):*

Carbon Isotope Geochemistry (G, E8)	Recent Climate Change (G, E4)
Introductory Oceanography (UG, E200)	Freshman Seminar in Oceanography (UG, E25)
Independent Study Mentor (UG, G)	

#### *Adjunct Faculty (1998):*

Evolution, California State U. - Los Angeles (UG, E40)  
 Nutrition, Concordia University, Irvine, CA (UG, E20)

#### *Teaching Assistant at the University of Houston (1993-1996):*

Ecology (teach/coordinate) Invertebrate Zoology (UG, E10) Genetics (UG, E20/section)

#### *Live Broadcast Teaching:*

1996 JASON PROJECT VII Education program. 40 live broadcasts from Aquarius Habitat (NURC/NOAA), FL (see <http://www.jason.org>)

### OTHER PROFESSIONAL SYNERGISTIC ACTIVITIES AND RELATED EXPERIENCE

#### *Workshops*

- 2024 OAA mini-workshop on faculty awards and recognition (lead) (4 workshops)  
 2023 OAA mini-workshop on faculty awards and recognition (lead)

- 2023 ASC DEIJ Committee Chairs workshop, 6 Nov (participant)
- 2023 Tension Dividing Campus? Strategies for Leadership & Collaboration. Ohio State University, ASC Office of Diversity, Equity and Inclusion. 17 Oct 2023 (participant)
- 2023 Microaggression 101 and Microinterventions 102. Ohio State University 20 Jan and 9 Feb (participant)
- 2023 Lead: P&T Dossier Preparation mini-workshop in SES. Ohio State University, 18 Jan
- 2022 COST ACTION CA 20102 Marine Animal Forests of the World, *From the lab to the reefs: assessing heterotrophy in marine animal forests and its importance in guiding conservation strategy*, Participant and presenter, 26-28 Oct (participant)
- 2022 Searching for Inclusive Excellence Workshop, College of Arts and Sciences, Participant, 18 Oct (participant)
- 2022 Directed: Future of Coral Bleaching Research. Coral Bleaching Research Coordination Network (2 July)
- 2021 Directed: Data Assimilation in Coral Bleaching Research. Coral Bleaching Research Coordination Network (11-14 May)
- 2020 Coral Restoration Consortium Genetics Working Group Workshop, Participant (15-17 Dec).
- 2020 Directed: Developing Common Framework for Coral Collection, Archiving, and Sharing. Coral Bleaching Research Coordination Network (22-24 May).
- 2019 Managing for Resilience, International Coral Reef Initiative General Meeting, Townsville, Australia 2 Dec 2019 (participant)
- 2019 Directed: Developing a Common Framework to Enhance Comparability Among Coral Bleaching Experiments. Coral Bleaching Research Coordination Network (22-24 May).
- 2019 “Intelligent” Mentoring Workshop by Dr. Audrey Murrell, 20 March (participant)
- 2019 Lead: P&T Dossier workshop in SES. Ohio State University, 11 Jan
- 2018 Lead: P&T Dossier workshop in SES. Ohio State University, Jan
- 2018 OSU P&T Dossier Workshop for P&T Chairs. Ohio State University, Participant, 11 July
- 2017 Lead: 3 workshops to develop a Faculty Mentor Responsibilities Policy in SES, Fall
- 2017 Lead: 2 workshops to revise the annual faculty report form in SES, Fall
- 2017 OSU P&T Dossier Workshop for P&T Chairs, Ohio State University, Participant, 30 August
- 2017 OSU P&T VITA dossier writing workshop for P&T Chairs, OSU, Participant, 6 September
- 2016 Executive Committee member US Investigators Coral Bleaching Workshop (17-18 June) Honolulu, HI
- 2014 Big10 Academic Alliance - Academic Leadership Program: Workshop on Money, Management, and Strategies. University of Illinois, Participant (10-12 April).
- 2014 Big10 Academic Alliance - Academic Leadership Program: Workshop on Internal and External Relationships in the University, Purdue University, Participant (6-8 Feb)
- 2013 Big10 Academic Alliance - Academic Leadership Program: Workshop on Education, Community Engagement, and Diversity, Michigan State U., Participant (3-5 Oct)
- 2013 Ocean Acidification in the Caribbean workshop. Mote Marine Lab, Sarasota, FL, Participant
- 2010 Organic Sustainability Grant Planning Meeting. Coshocton, OH, Participant
- 2006 Society of Sedimentary Geology (SEPM), course 19: Quaternary Reefs and Platforms: bridging the gap between ancient and the modern. – invited speaker and panelist, American Association of Petroleum Geologists Conference, Houston, TX (April)
- 2004 International Coral Reef pre-Symposium Workshop: Global Change and Coral Reefs University of Tokyo, Japan, Participant
- 2004 Woodrow Wilson Career Enhancement Fellowship Fall Retreat. Princeton, NJ, Participant



- 2003 Coral Reefs, Climate, and Coral Bleaching Workshop (NOAA, DOI, EPA) (June), Turtle Bay, Hawaii, Participant
- 2003 CREWS: Caribbean Marine Research Center/ Lea Stocking Island (CMRC/LSI) Workshop on Combined factors on coral bleaching think-tank, Bahamas, Participant, (Jan)
- 2001 National Association of Geoscience Teachers Workshop for Early Career Faculty in Geosciences, Teaching, Research, and Managing, College of William and Mary, Participant
- 2001 Finnigan MAT Training Course, University of Ottawa, Participant (Oct)
- 1994 Measurements of Ultraviolet Radiation in Tropical Coastal Ecosystems, University of Hawaii, Honolulu, HI, Participant, (August 3-5)
- 1994 Pauley Summer Program on Ultraviolet Radiation and Coral Reefs, Hawaii Institute of Marine Biology, HI, Participant, (June-August)

***Outreach and Service*** (see also Publicity and Media Outreach below for more)

- 2025 Guest speaker for ASC Science Sundays, 12 Jan
- 2024 Guest speaker for OSU Club: Under the Sea, 3 Sept
- 2024 Guest lecture on Stable Isotopes in Anthropology class
- 2023 SES Meetup Event at AGU Fall 2023 for all SES faculty, students, staff and alumni, Coordinator and Organizer
- 2023 Research consulting for undergraduate student Dana Marie Bibbs Braxton at Bowling Green State University (underrepresented group person) (22 Mar)
- 2023 Guest speaker for Ohio State University Libraries Science Café (1 Mar)
- 2023 Guest lecture on Stable Isotopes in Anthropology class
- 2023 OSU-Graduate Faculty Representative PhD Final oral examination for Jack Evans, Molecular, Cellular, & Developmental Biology, 7 March
- 2023 Established team to developed coral reefs and climate change display for Orton Geological Museum in collaboration with undergraduate student Tony Caputo, Prof. Babcock, Coral Reef Systems Farm, and the Columbus Zoo and Aquarium
- 2023 Initiated and developed plans for the establishment of gender-inclusive bathrooms, lactation rooms in Mendenhall and Orton Hall
- 2022 Presented the His Serene Highness the Prince Albert of Monaco II the Lifetime Membership Medal by the International Coral Reef Society (4 July)
- 2022 Expert Panelist, Science-to-Policy Dialogue, 15<sup>th</sup> International Coral Reef Symposium, Bremen, Germany, 5 July
- 2022 Delivered opening and closing ceremonies addresses as President of the International Coral Reef Society at the 15<sup>th</sup> International Coral Reef Symposium, Bremen, Germany (3-8 July)
- 2022 Provided TV and radio interviews as President of the International Coral Reef Society during the 15<sup>th</sup> International Coral Reef Symposium in Bremen, Germany (3-8 July)
- 2022 Delivered the International Coral Reef Society state of the Society address and hosted the Society's General Meeting at the 15<sup>th</sup> International Coral Reef Symposium, Bremen, Germany (6 July)
- 2022 – 2019 Led and ran monthly International Coral Reef Society Officers meetings and quarterly full Council meetings virtually
- 2022 Hosted Columbus School for Girls students for a tour or Orton Hall and a meet-and-greet with the Bownocker speaker Dr. Dr. Lindy Elkins-Tanton (October)
- 2022 Interviewed as international expert for the James Cook University Marine Science Strategy
- 2021 Interviewed by Bexley Public School students about coral reefs and climate change (1 Dec)
- 2021 OSU-Graduate Faculty Representative – PhD Final oral examination for Duncan Johnston,

- Kinesiology, (24 Mar)1
- 2021 Delivered the International Coral Reef Society state of the Society address and hosted the Society’s General Meeting at the 14<sup>th</sup> virtual International Coral Reef Symposium
- 2021 Expert Panelist, Science-to-Policy Dialogue, 14<sup>th</sup> International Coral Reef Symposium, Bremen, Germany, July
- 2020 Research methods and coral reefs presentation, Columbus School for Girls, Middle School Assembly, 9 Dec 2020
- 2020 Directed the development and launch of the International Coral Reef Society’s [Plan of Action](#)
- 2019 OSU-Graduate Faculty Representative – PhD Final oral examination for Christofer Johnson, English, 14 Nov
- 2019 Established Coral Bleaching Research Coordination Network protocols website at [www.protocols.io/groups/CoralBleachingRCN\\_protocols](http://www.protocols.io/groups/CoralBleachingRCN_protocols)
- 2018 Established and build the Coral Bleaching Research Coordination Network website at [u.osu.edu/Grottoli.1/coral-bleaching-rcn](http://u.osu.edu/Grottoli.1/coral-bleaching-rcn)
- 2018 - 2019 Louis Stokes Alliances for Minority Participation (LSAMP) Mentor to Kiya Hailu - Program at OSU to increase underrepresented students in STEM fields
- 2018 OSU-Graduate Faculty Representative – PhD final oral examination for Tingyang Zhou, Biophysics, July 13
- 2018 Judge for the 2018 Denmen Undergraduate Research Forum, The Ohio State University
- 2017 Expert discussion leader at the OSU SENR and Office of Energy and Environment’s Environmental Film Series screening of the film “Chasing Coral”, 30 Oct, Columbus, OH
- 2017 Expert discussion leader at First Unitarian Universalist Church screening of the film “Chasing Coral”, 24 Sept, Columbus, OH
- 2017 OSU-Graduate Faculty Representative – PhD final oral examination for Aimee Yoon, Sociology, June
- 2017 Judge for the 2017 Denmen Undergraduate Research Forum, The Ohio State University
- 2016 Interviewed by Olentangy Liberty High School student Amadi Ejouadi, December
- 2014 - 2016 Louis Stokes Alliances for Minority Participation (LSAMP) Mentor to Zuri Brooks - Program at OSU to increase underrepresented students in STEM fields
- 2014 - 2015 Mentor to Postdoc Dr. Jeremy Williams through the Committee on Institutional Cooperation - Professorial Advancement Initiative (CIC-PAI)
- 2014 - 2017 International Coral Reef Society Council Member and Awards Committee Chair
- 2015 Host and organized SES Climate, Water, and the Environment Mini-Symposium (Oct)
- 2015 OSU-Graduate Faculty Representative – PhD Final Oral Examination for Hsiao-chi Chang, EEOB, May
- 2015 Judge for the 2015 Natural and Mathematical Sciences Undergraduate Research Forum, Ohio State University
- 2015 Hosted the Hawaii Institute of Marine Biology Field trip for OSU Alumni in Hawaii
- 2014 Host and organized SES Climate, Water, and the Environment Mini-Film Festival (Oct)
- 2014 Host biology Scholars Program Lab tour and Research experience talk, OSU, Oct
- 2014 OSU – Welcome Commencement Speaker, August
- 2013 OSU-Graduate Faculty Representative – PhD Final Oral Examination of Forrest Raffel, Integrated Biomedical Sciences, Dec
- 2012 Invited speaker at OSU-ASC Renaissance Rediscovery Alumni Program
- 2012 4Coral Research Group: Open House at the Reef Systems Coral Farm

- 2012 Invited speaker at Friendship Village of Columbus senior home for “Great Decisions” discussion on the state of the oceans, March
- 2012 Invited speaker at SCUBAFEST Ohio – Coral conservation and diving
- 2012 OSU-Graduate Faculty Representative – PhD Final Oral Examination of Ryan Harrison in Dept of Education, February
- 2010 - 2014 Young Ocean Explorers Program Director -Batelle Discovery Center
- 2011 Ocean Explorers Tank teacher training session at the Batelle Discovery Center
- 2011 Panelist for the Undergraduate Research Office's Faculty Perspectives on Undergrad. Research panel
- 2011 4Coral Research Group: Open House at the Reef Systems Coral Farm
- 2010 Biology Scholars Program Lab tour and undergrad research experience presentation, Jan
- 2010 Arts and Sciences Parental Leave Working Group member (May – July), OSU
- 2010 Get a Passport Campaign feature, Office of International Affairs, OSU
- 2009 - 2010 School of Earth Sciences Webpage coordinator, The Ohio State University
- 2010 Judge for the 2010 Denman Undergraduate Research Forum, The Ohio State University
- 2009 OSU-Graduate Faculty Representative – PhD Final Oral Examination in History, Sept
- 2009 Judge for the 2009 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2008 OSU-Graduate Faculty Representative – PhD Final Oral Examination in Education, Sept
- 2008 Hosted a Summer Research Opportunity Program student Frances Lugo from Puerto Rico
- 2008 Judge for the 2008 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2008 Science Olympiad Oceanography Coach, Grandview Middle School
- 2007 Hawaii Institute of Marine Biology Pauley Summer Research Program, invited instructor
- 2007 Hosted a Summer Research Opportunity Program student Frances Lugo from Puerto Rico
- 2007 Judge for the 2007 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2007 Science Olympiad Oceanography Coach, Grandview Middle School
- 2007 Student Shadow for a day, 6<sup>th</sup> Grader Tyler Cleveland
- 2006 Dinner for 12 Strangers invited faculty guest, Ohio State University dinner with undergrads, alumni, and faculty
- 2006 Hosted the Hawaii Institute of Marine Biology Field trip for OSU Alumni in Hawaii
- 2006 Stone Lab Oceanography Field trip for undergraduate non-majors
- 2006 Judge for the 2006 Undergraduate Research Forum, College of Mathematical and Physical Sciences, Ohio State University
- 2005 Dominion Middle School, Gifted and Talented program. Presentation and discussion on coral reef conservation with 5<sup>th</sup> graders.
- 2005 Mainland Regional High School Learning about Science. All day interactive visit to three labs in geoscience and bioengineering.
- 2005 Women in Science lecture and discussion for grad/undergrad students
- 2005 New Jersey Aquarium field-trip for undergraduates
- 2003 Gender Equity Panel: panel discussion with undergraduates on women in academia
- 2004 Jersey Shore field-trip for undergraduates
- 2001-2005 Fisher-Hassenfeld House Faculty Fellow in residence full-time, 600 undergrads
- 2001-2005 Research and Careers in Marine Science yearly presentation and discussion with undergraduates

- 2003 Graduate School of Education: Global Climate and ENSO seminar.
- 2003 Healthy Food Choices in Dining: F-H House Healthy Living discussion group leader
- 2004 Penn Reading Project Discussion Group Leader (The Tipping Point, by Gladwell)
- 2003 Penn Reading Project Discussion Group Leader (The Quiet American, by Greene)
- 2002 Penn Reading Project Discussion Group Leader (When Things Fall Apart, by Achebe)
- 2001 Penn Reading Project Discussion Group Leader (Candide, by Voltaire)
- 2002 Women in Leadership Series: panel discussion on women in science with undergrads

### **Research Cruises**

- 2020 Florida, *M/V Makai*, 28-30 Nov
- 2011 Maui, *R/V Ka`imikai-o-Kanaloa*, 24 Feb – 4 Mar
- 2005 Gulf of Mexico, *R/V Seward Johnson*, 15-20 Sept
- 2002 Gulfs of Panama and Chiriqui, *R/V Urraca*, 19-26 July
- 2000 Eastern Atlantic, *R/V Knorr*, 9 June – 1 July
- 1999 North Central Pacific, *R/V Melville*, 24 May – 15 June

### **Panelist**

- 2023 Regenerating Coral Reefs in a Hot and Sour Ocean. AGU Ocean Vision Summit, Atlanta, GA Invited Panelist (3-6 Apr)
- 2022 Science-to-Policy Dialogue Plenary panelist at the 15<sup>th</sup> International Coral Reef Symposium, 7 July
- 2022 “Chasing Coral” movie viewing and panel discussion, University of Bremen 20 May
- 2021 Virtual Science-to-Policy Dialogue Plenary panelist at the 14<sup>th</sup> International Coral Reef Symposium, July
- 2018 Women in STEMM panelist, OSU STEMM Alumni Association
- 2016 National Science Foundation Biological Oceanography panel
- 2015 National Science Foundation Postdoctoral Research Fellow panel
- 2012 National Science Foundation Ocean Acidification panel
- 2012 Comprehensive Equity at Ohio State (CEOS) and the Women’s Place: Budgeting and Grant Writing panelist
- 2011 Undergraduate Research Office's Faculty Perspectives on Undergrad. Research panel
- 2007 National Science Foundation – Site review panel of the National Ocean Science Accelerator Mass Spectrometry (NOSAMS) facility at Woods Hole Oceanographic Institution, Oct
- 2007 Women in the Science Technology Engineering and Math (STEM) Fields panel: discussion on women in science with undergrads at OSU
- 2005 National Science Foundation – Chemical Oceanography Review Panel
- 2004 Association of American Geographers Annual Meeting: Session 5505 Global Change and Geography of Individual Responsibility Panel, Philadelphia, PA
- 2003 Gender Equity Panel: panel discussion with undergraduates on women in academia
- 2002 Women in Leadership Series: panel discussion on women in science with undergrads

### **Scientific Meeting Organizer/Session Chair/co-Chair**

- 2024 Session chair, 2024 Reef Futures 2024 meeting, Cancun, Mexico, 9-13 Dec
- 2023 Session chair, 2023 American Geophys. Union Fall Meeting, San Francisco, CA 11-15 Dec
- 2019-2022 International Coral Reef Symposium 2021 (ICRS2021) Organizing Committee Member
- 2022 Session chair, 15<sup>th</sup> International Coral Reef Symposium, Bremen, Germany (2-8 July)
- 2021 Session chair, 14<sup>th</sup> International Coral Reef Symposium (virtual) (19-23 July)
- 2018 Session co-chair, Assisted Evolution, Reef Futures 2018, Key Largo, FL (10-14 Dec)
- 2016 Session co-chair and proceedings co-editor, 13<sup>th</sup> International Coral Reef Symposium:

- Session 36, Assessing and addressing the effects of multiple stressors on coral reefs towards developing effective management and policy responses.
- 2012 Session co-Chair and proceedings co-editor, 12<sup>th</sup> International Coral Reef Symposium: Coral Physiology session
- 2011 Session Chair, American Society of Limnology and Oceanography Meeting, Coral Session S36
- 2008 Session Chair, Ocean Sciences Meeting (AGU/ASLO), Coral Reefs Session 144
- 2006 Session Chair, Benthic Ecology Meeting, Reef Ecology Session
- 2004 Session co-chair and proceedings co-editor, 10<sup>th</sup> International Coral Reefs Symposium: Mini-Symposium on Corals as Recorders of Past Climate

**Research Assistant**

1995 University of Houston, Houston, TX

**Lab technician**

1991 - 1992 McGill University undergraduate research technician, Montréal, Quebec, Canada

**Visiting Researcher**

Musée Océanographique, Centre Scientifique de Monaco, Monaco (2013, 2021-22)  
 Laboratoire Océanographique de Villefrance, France (2021 – 2022)  
 Hawaii Institute of Marine Biology Kaneohe, Hawaii (1994 - 1996, 2006-2007, 2014- present)  
 ICMYL-UNAM Field Station, Puerto Morelos, Mexico (2009 – 2011)  
 Palau Coral Reef Research Foundation, Koror, Palau (2006)  
 Palau International Coral Reef Center, Koror, Palau (2001 – 2003)  
 Department of Fish and Wildlife, Saipan, CNMI (2001 – 2006)  
 Smithsonian Tropical Research Institute, Panama City, Panama (2002)  
 Lawrence Livermore National Laboratory, Livermore, CA (2001)  
 Rosenstiel School of Marine and Atmospheric Science. U. of Miami, Miami, FL (1997)

**INVITED SPEAKER**

- 2025 **OSU College of Arts and Sciences Science Sundays**, *Can we save coral reefs?* (12 Jan)
- 2024 **John Hopkins University**, *Feeding and Technology Solutions for the Future of Coral Reefs* (3 Oct)  
**Under the Sea, OSU Club**. *Feeding and Technology Solutions for the Future of Coral Reefs* (3 Sept)  
**Coral Restoration Consortium RESCUE Working Group**. *Feeding and Technology Solutions for the Future of Coral Reefs*. (3 May)  
**12<sup>th</sup> Mexican Coral Reef Society Congress**. Keynote Speaker: *Feeding and Technology Solutions for the Future of Coral Reefs*. (22 Apr)  
**Climate-Informed Ecosystem Restoration in MPAs (CERM) Symposium**. Invited: *UZELA technology and Coral Restoration*. (27 Mar)  
**Global Leadership Initiative Program: Global Sustainability Educational Conference at the Columbus Zoo and Aquarium**. *Saving Coral Reefs* (25 Feb)
- 2023 **OSU Bioarcheology guest lecture** *Stable Isotope Biogeochemistry Basics and Case Studies* (11 Apr)  
**Kenyan College** *Coral Reefs and Climate Change: Causes, Consequences, and Solutions* (31 Mar)  
**Otterbein College** *Coral Feeding as a Possible Solution to the Coral Bleaching Crisis* (27 Feb)



- Science Café, Ohio State University Libraries** *Solutions to the Coral Bleaching Crisis* (1 Mar)  
96 attendees
- 2022 **Hawaii Institute of Marine Biology** *Role of Heterotrophy in Shallow-Water Tropical Coral Resilience to Climate Change* (16 November)  
**COST ACTION Marine Animal Forests of the World Workshop** *Role of Heterotrophy in Shallow-Water Tropical Coral Resilience to Climate Change* (26 October)  
**Reef Futures 2022** Keynote Speaker *The International Coral Reef Society: Magnifying our voice for coral reefs at the national and international level through chapter partnerships* (28 Sept)  
**15<sup>th</sup> International Coral Reef Symposium**, Germany. *ICRS Plenary and Award Ceremony* (8 July)  
**Laboratoire Océanographique de Villefranche**, France. *The Future of Coral Reefs* (5 March)  
**The Ohio State University**, School of Environment and Natural Resources (May)  
**Centre Scientifique de Monaco**, Monaco. *The Future of Coral Reefs* (26 April)  
**Université de Perpignan**, France. *The Future of Coral Reefs* (14 April)
- 2021 **American Geophysical Union Fall Meeting**. Rachel Carson Lecturer (Plenary). *The Future of Coral Reefs*. (15 Dec)  
**Reef Futures 2021 (virtual)**. Keynote Speaker *Rebuilding coral reefs: a decadal grand challenge*. (16 Dec)  
**Reef Conservation United Kingdom**. Plenary speaker. *Rebuilding Coral Reefs: A Decadal Grand Challenge* (27 Nov)  
**35<sup>th</sup> International Coral Reef Initiative General Meeting: International Coral Reef Society (ICRS) Report**. (25 Jan) <https://www.icriforum.org/events/icrigm35/>  
**Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)** (Invited virtual seminar) *Coral Reefs and Climate Change: Multiple Stressors and Resilience* (12 Jan) recording [here](#)  
**Pennsylvania State University**, Dept. of Biology (Invited virtual seminar) *Coral Reefs and Climate Change: Multiple Stressors and Resilience* (6 Jan)  
**University of Connecticut**, Department of Marine Science (invited virtual seminar) *Coral Reefs and Climate Change: Multiple Stressors and Resilience* (9 Feb)  
**University of Pennsylvania**, Dept. of Biology (invited virtual seminar) *Coral Reefs and Climate Change: Multiple Stressors and Resilience* (25 Feb)
- 2020 **Columbus School For Girls**, Research methods and coral reefs presentation, Middle School Assembly Speaker, 9 Dec  
**Coral Bleaching Research Coordination Network** Webinar. *Increasing comparability among coral bleaching experiments* (23 Nov)
- 2019 **Scripps Institute of Oceanography at UC-San Diego** (invited talk) *Coral Reefs and Climate Change: How Will They Survive?* (Jan)  
**Under the Sea OSU** Student organization (invited speaker) *Coral Reefs and Climate Change: How Will They Survive?* (Mar)  
**Byrd Climate Change Symposium at OSU** (invited talk) *Biological Impacts of Climate Change* (Mar)  
**University of Georgia** – keynote speaker at Symbiofest *Coral Reefs and Climate Change: How Will They Survive?* (April)  
**Case Western Reserve University** (invited talk) *Coral Reefs and Climate Change: How Will They Survive?* (Nov)



- International Coral Reef Initiative General Meeting, Australia** (invited talk) *International Coral Reef Society (ICRS) Member Report* (Dec)
- 2018 **University of Toronto – Mississauga Center for Global Change Science Distinguished Lecture Series** (Invited talk) *Coral Reefs and Climate Change: How Will They Survive?* (Jan)
- Advance Faculty Research Lecture Series – Ohio State University** *Journey of a Marine Scientist* (Feb)
- Ohio Wesleyan University**, Westerville OH “*Coral Reefs and Climate Change: Journey of a Marine Scientist*” (Mar)
- Ohio State University, 4<sup>th</sup> Annual ASC Campus Campaign Talent Show**, Invited TED-style talk on *Coral Reefs and Climate Change*. (March)
- Current: Marine Biology at Ohio State**, Undergraduate Club, “*Coral Reefs and Climate Change: Journey of a Marine Scientist*” (Apr)
- American Chemical Society, Chemical Abstracts Services** Chemists Celebrate Earth Week, Columbus, OH *Coral Reefs and Climate Change: How Will They Survive?* (Apr)
- Sea Naggs Scuba Club**, Columbus OH *Coral Resistance and Resilience to Climate Change* (Sept)
- Kent State University**, Department of Geology *Coral Carbon Budgets in the Face of Climate Change* (Sept)
- Hopkins Marine Laboratory of Stanford University**, Monterey, CA *Coral Reefs and Climate Change: How Will They Survive?* (Nov)
- 2017 **Atlanta Reef Club**, Atlanta GA *Coral Reefs and Climate Change: How will they survive?* (July)
- University of Akron**, Department of Biology. *Corals and Climate Change* (March)
- Ohio State University**, Dept Ecology, Evolution and Organismal Biology – Intro Biology class special lecture. *Corals and Climate Change* (Feb)
- 2016 **Bennington College**, Department of Science and Math. *Corals and Climate Change* (Oct)
- Coral Reef Task Force Webinar**. *Corals Coping with Climate Change* (April)
- 13<sup>th</sup> International Coral Reef Symposium**, Honolulu, HI. Invited Oral Presentation. *Combined responses of the coral microbiome and coral physiology to elevated temperature and pCO<sub>2</sub>*. (July)
- Sea Naggs Scuba club**, Columbus, OH. *Corals and Climate Change* (September)
- Ohio State University**, Dept Ecology, Evolution and Organismal Biology – Intro Biology class special lecture. *Corals and Climate Change* (Feb)
- 2015 **TEDx OSU** speaker. *Our Coral Connection* (14 Feb 2015) <http://tedx.osu.edu/> and <https://www.youtube.com/watch?v=l0CwOQQiVWc>
- 2014 **Ohio State University**, Welcome Commencement Speaker (25 August)  
<https://www.facebook.com/osu/photos/a.10153110792798858.1073741863.6711658857/10153110798668858/?type=3&theater>
- 2013 **Centre Scientifique de Monaco**. Monaco, Monaco. *Global Warming and Ocean Acidification: How will corals manage?*
- Mote Marine Lab**, Ocean Acidification Workshop. Sarasota, FL. *Coral Resilience to conditions in 2100?*
- 2012 **Bowling Green State University**, SETGO program, Bowling Green, OH. *Global Warming and Ocean Acidification: How will corals manage?*
- Otterbein College**, Department of Biology and Earth Science, Westerville, OH. *Global Warming and Ocean Acidification: How will corals manage?*
- The Ohio State University**, ASC Renaissance Rediscovery Alumni Program, Columbus, OH. *Global Warming and Ocean Acidification: How will corals manage?*
- The Ohio State University**, School of Earth Science, Columbus, OH. *Global Warming and*

- Ocean Acidification: How will corals manage?*  
**University of Georgia**, Department of Marine Science, Athens, GA. *Global Warming and Ocean Acidification: How will corals manage?*
- Northeastern University**, School of Marine Science, Boston, MA. *Global Warming and Ocean Acidification: How will corals manage?*
- Scubafest**, Columbus, OH. *Coral Reef Discovery and Conservation*
- 2011 **University of Michigan**, Smith Lecturer, Department of Geological Sciences, Ann Arbor, MI (June). *Paleoceanography of the Western Tropical Pacific Warm Pool*
- Université de Québec a Montréal**, GEOTOP, Montreal, PQ, Canada. *Paleoceanography of the Western Tropical Pacific Warm Pool*
- University of Delaware**, College of Earth, Ocean, and the Environment, Lewes, DE. *Coral bleaching: Resilience and Alternative Strategies: A better understanding of coral bleaching using stable carbon isotopes ( $\delta^{13}C$ )*
- Ohio State University**, School of Environment and Natural Resources, Columbus, OH. *Coral bleaching: Resilience and Alternative Strategies*
- 2010 **ICMyL-UNAM Field Station**, Faculty of Marine Sciences, Puerto Morelos, QR Mexico. *Carbon and Coral bleaching: Resilience and Alternative Strategies How stable isotopes shed light on physiological processes*
- Ohio University**, Department of Geological Sciences, Athens, OH. *Coral bleaching: Resilience and Alternative Strategies A better understanding of coral bleaching using stable carbon isotopes ( $\delta^{13}C$ )*
- Ohio State University**, School of Earth Sciences mini-symposium, Columbus, OH. *The State of Coral Reefs.*
- 2008 **McGill University**, Department of Earth and Planetary Sciences, Montreal, PQ, Canada. *Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- USGS and University of South Florida** joint seminar, St. Petersburg, FL. *Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- 2007 **Harvard University**, Earth History and Paleobiology Series, Boston, MA. *Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- College of Wooster**, Department of Geology, Wooster, OH. *Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals and Sclerosponges: Implications for Paleoceanography and Biology*
- University of Hawaii**, Hawaii Institute of Marine Biology, Kaneohe Bay, HI. *Corals and sclerosponges as geochemical recorders of past climate change*
- 2006 **SEMP** Quaternary Reefs and Platforms: invited speaker and panelist, American Association of Petroleum Geologists Conference, Houston, TX. *Corals and sclerosponges as geochemical recorders of past climate change*
- Ohio State University**, Environmental Science Graduate Program, Columbus, OH. *Paleoceanography Using Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals and Sclerosponges*
- Bowling Green State University**, Department of Biological Sciences, Bowling Green, OH. *Coral bleaching: Resilience and Alternative Strategies*
- Ohio State University**, Dept Ecology, Evolution, and Organismal Biology (EEOB), Columbus, OH. *Coral bleaching: Resilience and Alternative Strategies*
- Ohio State University**, School of Earth Sciences Brown Bag, Columbus, OH. *Coral bleaching Alternative Strategies, Resilience, and Isotopic Signatures*
- University of Hawaii**, School of Ocean and Earth Science (SOEST), Honolulu, HI. *Coral*

- bleaching: Resilience and Alternative Strategies*  
**University of Hawaii**, Hawaii Institute of Marine Biology, Kaneohe Bay, HI. *Corals and sclerosponges as geochemical recorders of past climate change*  
**University of Cincinnati**, Department of Biology, Cincinnati, OH. *Heterotrophic Plasticity, Energy Reserves, and Resilience in Bleached Corals*
- 2005 **State University of New York - Albany**, Department of Earth and Atmospheric Sciences, Albany, NY. *Paleoceanography Using Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals and Sclerosponges*
- 2004 **Pennsylvania State University**, Department of Geosciences, University Park, PA. *Paleoceanography Using Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals and Sclerosponges*  
**Washington Geological Society**, Washington, DC. *Paleoceanography Using Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals and Sclerosponges*  
**Goldschmidt Plenary Speaker**, Copenhagen, Denmark. *Stable Carbon Isotopes ( $\delta^{13}C$ ) in Corals: An Experimental Approach and Applications for Paleoceanography*  
**Ohio State University**, Department of Geological Sciences, Columbus, OH. *Paleoclimatology and Paleoceanography Using Carbon Isotopes in Corals and Sclerosponges*  
**University of Texas Marine Science Institute** Schweppe Seminar speaker, Port Aransas, TX. *Carbon Isotopes in Corals and Sclerosponges: Applications for Paleoclimate Reconstruction*  
**University of Texas Marine Science Institute** Schweppe Seminar Public Evening Lecture, Port Aransas, TX. *The Effect of Human Impacts and Coral Bleaching on Coral Reef Ecosystems: Implications for Coral Reef Conservation*  
**Association of American Geographers** Annual Meeting, Session 5505 Global Change and Geography of Individual Responsibility Panel, Philadelphia, PA. *Individual Responsibility and Global Climate Change*.
- 2003 **Rutgers University**, Institute of Marine Sciences, New Brunswick, NJ. *Carbon in corals and sclerosponges*  
**University of Maryland**, Department of Geology, College Park, MD. *Carbon in corals and sclerosponges*.  
**Columbia University**, Lamont-Doherty Earth Observatory, New York, NY. *Carbon in corals and sclerosponges*.  
**Northwestern University**, Department of Geology, Chicago, IL. *Carbon in corals and sclerosponges*  
**CREWS workshop**, CMRC/LSI Workshop, Bahamas. *Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition*  
**University of Pennsylvania**, Graduate School of Education, Philadelphia, PA. *Global Climate and ENSO*.  
**University of Pennsylvania**, Institute for Environmental Studies, Philadelphia, PA. *Coral Reefs: Conservation and Case Studies*
- 2002 **University of Pennsylvania**, Department of Biology, Philadelphia, PA. *Coral Bleaching and Resilience*  
**University of Pennsylvania**, Department of Earth & Environmental Science, Philadelphia, PA. *Radiocarbon record in a Fanning Island coral: Inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922-1956*.  
**University of Pennsylvania**, Institute for Environmental Studies, Philadelphia, PA. *Coral Reefs: Conservation and Case Studies*
- 2001 **University of Pennsylvania**, Dept. Earth & Environmental Science. Philadelphia, PA. *Coral*

*Bleaching and Resilience.*

**University of Pennsylvania**, Institute for Environmental Studies. *Coral Reefs: Conservation and Case Studies*

**University of Pennsylvania**, Goldberg House. *Coral Reefs: Human Impacts and Conservation*

**Temple University**, Department of Geology, Philadelphia, PA. *Radiocarbon record in a Fanning Island coral: Inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922-1956*

2000 **Florida International University**, Department Biological Sciences Seminar, West Miami, FL. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*

**University of Washington**, Quaternary Research Center Seminar, Seattle, WA. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*

**University of Pennsylvania**, Department Earth and Environmental Science, Philadelphia, PA. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*

**American University**, Department of Biology Seminar, Washington, DC. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*

1999 **Columbia University**, Biosphere 2, Tuscon, AZ. *Interpretation of stable carbon isotopes in reef coral skeletons and application for paleoclimate reconstruction.*

**University of California – Irvine**, Department of Ecology & Evolutionary Biology, Irvine, CA. *Coral Reefs: Conservation and Global Change*

1998 **University of California – Irvine**, Department of Earth System Science, Irvine, CA. *Coral Reefs: Conservation and Global Change*

1996 **Shamenade University**, Department of Biology, Honolulu, HI. *Tools for Paleoclimate Reconstruction.*

### **PUBLISHED ABSTRACTS** (\*= my student advisees)

2024 (250) Hulver AM, Beraud E, Dixon S, Moya A, Alderdice R, Munoz-Garcia A, Voolstra C, Ferrier-Pages C, Grottoli A. Long-term increase in baseline temperature impacts growth and metabolism of Red Sea *Stylophora istillata*. Reef Futures 2024, Cancun, Mexico Abstract #905

2024 (249) Grottoli A, Dixon, S, Hulver AM, Suchocki C, Bardin C, Lewis C, Schar D, Toonen R. Underwater Zooplankton Light Enhancement Array (UZELA) enhances coral feeding and growth. Reef Futures 2024, Cancun, Mexico Abstract # 739

2024 (248) Dixon S, Jorissen H, Madin J, Toonen R, Hulver AM, Welter J, Grottoli A. Baby steps: how the Underwater Zooplankton Enhancement Light Array (UZELA) can stimulate coral recruit survivorship and growth. Reef Futures 2024, Cancun, Mexico Abstract #640

2024 (247) Baums I, CRC Genetics Working Group (Grottoli is part of this group), Kuffner I, Kenkel C, Kitchen S, Klinges G, Koch H, Matz M, Miller M, Muller E, Parkinson J. Safeguarding Florida's coral reefs: the urgency of assisted gene flow for Elkhorn coral conservation. Reef Futures 2024, Cancun, Mexico Abstract #778

2024 (246) Barker T, Sweet M, Bulling M, Poor SR, Peters L, Craggs J, Grottoli A, Dobson K. Can sunscreen be positive for corals? Reef Conservation UK, 30 Nov, London

2024 (245) Barker T, Dobson K, Bulling M, Poor SR, Peters L, Craggs J, Grottoli A, Sweet M. Can sunscreen be positive for corals? European Coral Reef Symposium, Naples, Italy July 2024, ID526

2024 (244) Schoepf V, Grottoli AG, McLachlan RH, Price JT, Jury CP, Toonen RJ, DeCarlo EH, McCulloch MT. Coral calcification mechanisms and trace element composition across a natural

- environmental mosaic in Hawaii. European Coral Reef Symposium, Naples, Italy July 2024, ID671
- 2024 (243) Grottoli AG. Feeding and technology solutions for the future of coral reefs. 12<sup>th</sup> Mexican Coral Reef Congress. Ensenada, Mexico. 22-26 April (invited keynote)
- 2023 (242) Grottoli AG, Chapron L, Hulver AM, Kuffner IB, Kemp DW, Warner M. Stable Isotope Reveal Variability of Heterotrophically Acquired Carbon Contributions to Healthy Caribbean and Florida Corals Across Species, Time, and Geographic Locations. American Geophysical Union Fall Meeting 2023, San Francisco, CA Abstract# 1344541
- 2023 (241) Hulver AM, Carbonne C, Teixido N, Comeau S, Keister EF, Kemp DW, Gattuso JP, Grottoli AG. Heterotrophic adaptation of two Mediterranean corals to low pH at volcanic CO<sub>2</sub> vents. American Geophysical Union Fall Meeting 2023, San Francisco, CA
- 2023 (240) Dobson KL, Jury CP, Toonen RJ, McLachlan RH, Williams JC, Grottoli AG. Ocean acidification does not prolong recovery of coral holobionts from thermal stress in two consecutive years. Reef Conservation UK Annual Meeting, Newcastle upon Tyne, United Kingdom
- 2023 (239) Grottoli, AG. *In situ* feeding technology use in restoration and conservation to improve coral survivorship and growth. AGU Ocean Vision Summit, Atlanta, GA Invited Panelist (3-6 Apr)
- 2022 (238) Grottoli, AG. The International Coral Reef Society: Magnifying our voice for coral reefs at the national and international level through chapter partnerships. Reef Futures 2022, Key Largo, FL, Invited Keynote
- 2022 (237) Kenkel CD, Baums IB, Baker AC, Davies SW, Grottoli AG, Kitchen SA, Kuffner IB, Matz MV, Miller MW, Parkinson JE, Prada C, Shantz AA (2022) Managing expectations for selective breeding of future corals: The super coral myth. Reef Futures 2022, Key Largo, FL Oral presentation
- 2022 (236) Chapron L, Grottoli AG, Kuffner IB, Hulver AM, Kemp DW, Stathakopoulos A, Barlett LA, Lyons EO. Biological processes impacting the persistence of the threatened *Acropora palmata* coral in the Dry Tortugas National Park. (oral presentation) Reef Futures 2022, Key Largo FL
- 2022 (235) Kuffner I, Kaufman L, Baums I, Grottoli A, Kleypas J, Banaszak A. Coral-reef restoration and *Kintsugi*, the art of repairing cracked pottery. 15<sup>th</sup> International Coral Reef Symposium, Bremen Germany. 3-8 July, Oral Presentation
- 2022 (234) Hulver AM, Carbonne C, Teixido N, Comeau S, Gattuso JP, Grottoli A. Acclimation potential of Mediterranean corals to pH levels expected later this century. 15<sup>th</sup> International Coral Reef Symposium, Bremen Germany. 3-8 July, Oral Presentation
- 2022 (233) Grottoli A, Vega Thurber R, van Woesik R, Toonen R, Warner M, McLachlan R, Schmeltzer E, Price J, Dobson K, Bahr K, Barott K, Barshis D, Baums I, Baumann J, Castillo K, Chapron L, Coffroth MA, Combosch D, Cunning R, Correa A, DeCarlo T, Donahue M, Felis T, Ferrier-Pagès C, Hagedorn M, Hedouin L, Hench J, Hoadley K, Iglesias-Prieto R, Kemp D, Kenkel D, Kline D, Kuffner I, Matthews J, Mayfield A, Medina M, Meyer C, Oster C, Padilla-Gamino J, Palumbi S, Putnam H, Sawall Y, Voolstra C, Weis V, Wu H. Increasing comparability among coral bleaching experiments and maximizing sample utility across studies. 15<sup>th</sup> International Coral Reef Symposium, Bremen Germany. Oral Presentation Abstract A-1344
- 2022 (232) Jury C, Bahr K, Barba E, Brainard R, Cros A, Dobson K, Graham A, McLachlan R, Nelson C, Price J, Rocha de Souza M, Shizuru L, Smith C, Sparagon W, Squair C, Timmers M, Tran T, Vincente J, Webb M, Yamase N, Grottoli A, Toonen R. Experimental reef communities persist under mitigated future ocean acidification and warming. 15<sup>th</sup> International Coral Reef Symposium, Bremen Germany. 3-8 July, Oral Presentation Abstract A-1968

- 2021 (231) Grottoli AG. The future of coral reefs (Division of Ocean Sciences Rachel Carson Plenary Lecture), American Geophysical Union Fall Meeting, New Orleans, LA., OS31A-01
- 2021 (230) Grottoli AG. Rebuilding coral reefs: a decadal grand challenge. Reef Futures 2021 Virtual. Oral presentation.
- 2021 (229) Knowlton N, Grottoli AG, Kleypas J, Obura D, Corcoran E, de Goeij JM, Felis T, Harding S, Mayfield AB, Miller MW, Osuka KE, Peixoto RS, Randall KJ, Voolstra CR, Wells S, Wild C, Ferse SCA. Rebuilding coral reefs – a decadal grand challenge, Reef Conservation United Kingdom virtual meeting. Oral presentation
- 2021 (228) Grottoli AG, Toonen RJ, van Woerik R, Vega Thurber R, Warner ME, McLachlan RH, Price JT, Bahr KD, Baums IB, Castillo KD, Coffroth MA, Cunning R, Dobson KL, Donahue MJ, Hench JL, Iglesias-Prieto R, Kemp DW, Kenkel CD, Kline DI, Kuffner IB, Matthews JL, Mayfield AB, Padilla-Gamiño JL, Palumbi S, Voolstra CR, Weis VM, Wu HC. Increasing comparability among coral bleaching experiments, 14th International Coral Reef Symposium (virtual), 19-23 July, Oral presentation ICRS2021-759
- 2021 (227) Hulver AM, Carbonne C, Teixido N, Comeau S, Gattuso JP, Grottoli A. Mediterranean coral *Cladocora caespitosa* exposed to future ocean acidification conditions. 14th International Coral Reef Symposium (virtual), 19-23 July, Oral presentation ICRS2021
- 2021 (226) Price J, McLachlan R, Jury C, Toonen R, Wilkins M, Grottoli A. Variability in the Hawaiian coral microbiome suggests important relationships between microbes and coral resilience to global climate change. 14th International Coral Reef Symposium (virtual), 19-23 July, Oral presentation ICRS2021
- 2021 (225) McLachlan RH, Price J, Jury C, Dobson K, Toonen R, Grottoli A. Can Hawaiian corals acclimate to ocean warming and acidification after two years of exposure? 14th International Coral Reef Symposium (virtual), 19-23 July, Oral presentation ICRS2021
- 2021 (224) Dobson K, Levas S, Schoepf V, Warner M, Cai WJ, Hoadley K, Yuan X, Matsui Y, Melman T, Grottoli A. Moderate nutrient concentrations are not detrimental to corals under future ocean conditions. 14th International Coral Reef Symposium (virtual), 19-23 July, Oral presentation ICRS2021
- 2021 (223) Charpon L, Kuffner I, Stathakopoulos A, Barlett L, Lyons E, Grottoli AG. Biological processes impacting the persistence of the threatened *Acropora palmata* coral in Dry Tortugas National Park. 14th International Coral Reef Symposium (virtual), 19-23 July, Oral presentation ICRS2021
- 2021 Dixon S, Grottoli A, McLachlan R, Price J, Jury C, Dobson K, Toonen R. The effect of long-term temperature and pH stress on Symbiodiniaceae density in *Montipora capicata*, *Porites lobata*, and *Porites compress* coral. 14th International Coral Reef Symposium (virtual), 19-23 July, Poster presentation ICRS2021-2499
- 2019 (222) Dobson K, Levas S, Schoepf V, Warner M, Cai WJ, Hoadley K, Yuan X, Mtsui Y, Melman T, Grottoli AG. Coastal environments with moderate nutrient concentrations may provide refuge to corals under predicted future ocean conditions, Byrd Climate Change Symposium, 22 March, Columbus, OH
- 2019 (221) McLachlan R, Price J, Jury C, Dobson K, Toonen R, Grottoli AG. Global Climate Change: Can coral cope? Physiological variation informs conservation strategies, Byrd Climate Change Symposium, 22 March, Columbus, OH
- 2019 (220) Price J, McLachlan R, Jury C, Toonen R, Wilkins MJ, Grottoli AG. Assessment of the coral microbiome across a range of natural temperature and  $p\text{CO}_2$  environments, Byrd Climate Change Symposium, 22 March, Columbus, OH

- 2019 (219) Baums IB, Baker AC, Davies SW, **Grottoli** AG, Kenkel CD, Kitchen SA, Kuffner IB, LaJeunesse TC, Matz MV, Miller MW, Parkinson JE, Shantz AA. How to maximize future adaptive potential of restored coral populations. Association of Marine Laboratories of the Caribbean Meeting, Punta Cana, Dominican Republic
- 2018 (218) **Grottoli** AG, \*Dalcin Martins P, Wilkins MJ, Johnston MD, Warner ME, Cai WJ, Melman TF, Hoadley KD, Pettay DT, Hu X, \*Levas S, \*Schoepf V, Coral physiology and microbiome dynamics under combined ocean warming and acidification. American Geophysical Union Meeting, Washington, DC, poster: OS21F-1632
- 2018 (217) Shantz A, Baker A, Baums I, Davies S, **Grottoli** A, Kenkel C, Kitchen S, Kuffner I, LaJeunesse T, Matz M, Miller M, Parkinson J, Incorporating phenotypic traits in coral restoration. Reef Futures 2018, Key Largo, FL, oral presentation: CRC90113
- 2018 (216) **Grottoli** AG, Tchernov D, Winters G., Physiological and Biogeochemical Responses of Super-Corals to Thermal Stress from the Northern Gulf of Aqaba, Red Sea , Reef Futures 2018, Key Largo, FL, oral presentation: CRC8321.
- 2018 (215) Price JT, McLachlan RH, Jury CP, Toonen RJ, Wilkins MJ, **Grottoli** AG, Assessment of the coral microbiome and the underlying coral physiology across a natural range of natural temperature and  $p\text{CO}_2$  environments in Hawaii, Reef Futures 2018, Key Largo, FL, oral presentation: CRC57106.
- 2018 (214) Smith A, Price JT, McLachlan RH, Jury CP, Toonen R, **Grottoli** AG, Natural variability in the contribution of heterotrophic carbon to tissues of Hawaiian corals, Reef Futures 2018, Key Largo, FL, poster: CRC13177.
- 2018 (213) Dobson KL, Levas S, Schoepf V, Warner ME, Cai WJ, Yuan X, Hoadley K, Matsui Y, Melman TF, **Grottoli** AG, Interactive effects of elevated temperature,  $p\text{CO}_2$ , and moderate nutrients on the physiology and biogeochemistry of two species of Indo-Pacific coral, Reef Futures 2018, Key Largo, FL, oral presentation: CRC90107
- 2018 (212) Solomon S, **Grottoli** AG, Warner ME, Levas S, Schoepf V, Munoz-Garcia A, Lipid class profiles of annually bleached Caribbean corals inform coral selection for restoration, Reef Futures 2018, Key Largo, FL, oral presentation: CRC48195.
- 2018 (211) McLachlan RH, Price JT, Jury CP, Dobson KL, Toonen R, **Grottoli** AG, Phenotypic Variation in Hawaiian Corals Provides Insight into Coral Selection for Restoration, Reef Futures 2018, Key Largo, FL, oral presentation: CRC26179.
- 2018 (210) Kenkel C, Baker A, Baums I, Davies S, **Grottoli** A, Kitchen S, Kuffner I, LaJeunesse T, Matz M, Miller M, Parkinson J, Shantz A, Population genetic considerations for coral restoration, Reef Futures 2018, Key Largo, FL, oral presentation: CRC21193.
- 2018 (209) Miller M, Baker A, Baums I, Davies S, **Grottoli** A, Kenkel C, Kitchen S, Kuffner I, LaJeunesse T, Matz M, Parkinson J, Shantz A, Restoration provenance strategies to improve climate resilience, Reef Futures 2018, Key Largo, FL, oral presentation: CRC57155.
- 2018 (208) Parkinson J, Baker A, Baums I, Davies S, **Grottoli** A, Kenkel C, Kitchen S, Kuffner I, LaJeunesse T, Matz M, Miller M, Shantz A, Molecular Tools For Coral Reef Restoration: Beyond Biomarker Discovery, Reef Futures 2018, Key Largo, FL, oral presentation: CRC1349
- 2018 (207) Baums IB, Baker AC, Davies SW, **Grottoli** AG, Kenkel CD, Kitchen SA, Parkinson JE, Kuffner IB, LaJeunesse TC, Matz MV, Miller MW, Shantz AA. How to maximize future adaptive potential of restored coral populations, Reef Futures 2018, Key Largo, FL, oral presentation: CRC4141.
- 2018 (206) **Grottoli** AG, Coral reefs and climate change: we are running out of time. Metaphors of



Time: an interdisciplinary conversation across the arts, humanities, and sciences, Ohio State University, Columbus, OH

- 2017 (105) Jury CP, Newell M, \*Dobson KL, \*McLachlan RH, Marko P, **Grottoli** AG, Toonen RJ. Local adaptation drives coral resilience under ocean acidification and climate change. ASLO 2017 Aquatic Sciences Meeting. Honolulu, HI. Abstract #30008
- 2017 (104) \*Moore, AE, \*McLachlan RH, Jury CP, \*Dobson KL, Toonen RJ, **Grottoli** AG. Variability in Hawaiian coral across a natural range of temperature,  $p\text{CO}_2$  and flow gradients. 126<sup>th</sup> Annual Meeting of the Ohio Academy of Sciences, Cincinnati, OH 8 April 2017. Poster No. 042
- 2016 (103) LaVigne M, Cobb KM, DeLong K, Freiburger M, **Grottoli** AG, Hill TM, Miller H, Nurhati I, Richey J, Serrato Marks G, Sherrell RM. Using coral Ba/Ca records to investigate seasonal to decadal scale biogeochemical cycling in the surface and intermediate ocean. American Geophysical Union Meeting, San Francisco, CA, December. Abstract ID: 163912 (Invited Oral)
- 2016 (102) **Grottoli** AG, \*Martins PD, Wilkins MJ, Johnston MD, Warner ME, Cai WJ, Melman TF, Hoadley KD, Pettay DT, \*Schoepf V. Combined responses of the coral microbiome and coral physiology to elevated temperature and  $p\text{CO}_2$ . 13<sup>th</sup> International Coral Reef Symposium, Honolulu, HI 19-24 June, Abstract ID:27996, (Invited Oral)
- 2016 (101) \*Dobson KL, **Grottoli** AG, Jury C, Newell M, Marko P, \*Kadri A, \*Snyder K, \*McLachlan R, Toonen RJ. Recovery of *Montipora capitata* and *Porites compressa* from bleaching under ocean acidification conditions, 13<sup>th</sup> International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID: 29624, (oral)
- 2016 (100) \*McLachlan RH, **Grottoli** AG, Jury CP, \*Dobson K, Toonen RJ. Survey of Hawaiian coral physiology across a natural range of temperature and pH gradients. 13<sup>th</sup> International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID:29770 (poster).
- 2016 (99) Tanaka Y, **Grottoli** AG, Matsui Y, Suzuki A, Kazuhiko S. Effects of nitrate and phosphate availability on the biomass, stable carbon isotopes, and growth rates of scleractinian corals, 13<sup>th</sup> International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID:28498 (poster)
- 2016 (98) Newell ML, Jury CP, Knapp IS, Toonen RJ, \*Dobson KL, \*McLachlan R, **Grottoli** AG, Marko PB. *Symbiodinium* diversity in *Porites compressa* following a natural bleaching event, 13<sup>th</sup> International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID: 29747 (poster)
- 2016 (97) Jury CP, Newell ML, \*Dobson K, \*McLachlan R, Marko P, **Grottoli** AG, Toonen RJ, Local Adaptation drives coral resilience to ocean acidification and climate change, 13<sup>th</sup> International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID: 29277 (oral)
- 2016 (96) Cai WJ, Ma Y, Hopkinson B, **Grottoli** AG, Warner ME, Ding Q, Hu X, Yuan X, \*Schoepf V, Xu H, Han C, Melman TF, Hoadley KD, Pettay DT, Matsui Y, \*Baumann JH, \*Levas S, Ying Y, Wang Y. Coral interior carbonate chemistry measured with pH and carbonate microelectrodes suggests that the chemistry of the calcifying fluid affects resilience to OA, 13<sup>th</sup> International Coral Reef Symposium, Honolulu, HI, 19-24 June, Abstract ID: 28076 (oral)
- 2016 (95) Guerra A, Kozdon, **Grottoli** AG, Sherrell R. A coral record of seawater barium concentration recording variations in continental freshwater input to the Gulf of Panama. Ocean Sciences Meeting, New Orleans, MI
- 2015 (94) Cai WJ, Ma Y, **Grottoli** AG, Warner ME, Hopkinson B, Ding q, Hu X, Yuan X, \*Schoepf V, Melman, TF, Hoadley KD, Pettay DY, Matsui Y, \*Baumann JH, \*Levas S, Wang Y. Corals control interior pH and carbonate chemistry as revealed by microelectrode profiles. Ocean Acidification Principal Investigators' Meeting. Woods Hole, MA (poster)
- 2014 (93) \*Saup C, **Grottoli** AG, Ferrier-Pages C, Matsui Y. Physiological and isotopic responses of the coral *Stylophora pistillata* to future coastal ocean conditions. Geological Society of America

- Annual Meeting. Session 209. Vancouver, Canada. (poster)
- 2014 (92) LaVigne M, \*Matthews KA, **Grottoli** AG, \*Palardy J, Sherrell M. Multi-colony calibrations of coral Ba/Ca with a contemporaneous *in situ* seawater barium record. American Geophysical Union meeting, San Francisco, CA
- 2014 (91) \*Williams B, Thibodeau B, Chikaraishi Y, **Grottoli** A. Nitrogen isotopic composition of proteinaceous coral skeletal amino acids records change in source nitrate to the euphotic zone in the western tropical Pacific. American Geophysical Union meeting, San Francisco, CA
- 2014 (90) \*Baumann J, **Grottoli** AG, Matsui Y, \*Hughes A. Acquisition and allocation of carbon to lipids of bleached and healthy Hawaiian corals. Benthic Ecology Meeting, Jacksonville Florida
- 2013 (89) Tanaka Y, **Grottoli** AG, Matsui Y, Suzuki A, Sakai K. Estimation of internal and external nitrogen for corals with long-term <sup>15</sup>N-labelling experiment and subsequent model calculations. European Geosciences Union meeting, April. EGU2014-9565
- 2013 (88) **Grottoli** AG, Warner ME, Cai WJ, Bauer JE, \*Schoepf V, \*Levas SJ, Melman T, Hoadley KD, Pettay DT, Hu X, Wang Y, Matsui Y. Interactive effects of elevated *p*CO<sub>2</sub> and temperature on the physiology of four species of Pacific corals. Ocean Acidification Principal Investigators' Meeting. Sept 18-20, 2013, Washington, DC (poster)
- 2013 (87) Cai WJ, Ding Q, Ma Y, Wang Y, **Grottoli** AG, Warner ME, Hopkinson B, Hu X. Microelectrode profile measurements of pH, CO<sub>3</sub><sup>2-</sup> and Ca<sup>2+</sup> inside coral polyps. Ocean Acidification Principal Investigators' Meeting. Sept 18-20, 2013, Washington, DC (poster)
- 2012 (86) **Grottoli** AG, \*Schoepf V, Warner ME, Cai W-J, Melmann T, \*Baumann J, Matsui Y, Pettay DT, Hoadley K, Xu H, Wang Y, Li Z, Hu X. Interactive effect of elevated *p*CO<sub>2</sub> and temperature on coral physiology and calcification: a glimmer of hope? The Ocean in a High-CO<sub>2</sub> World 3<sup>rd</sup> International Symposium, Monterey CA.
- 2012 (85) \*Schoepf V, Hu X, **Grottoli** AG, Cai W-J, Warner ME, Melman T, Xu H, Li Q, Wang Y, Hoadley K, Pettay DT, \*Baumann J, Matsui Y. Coral calcification under elevated *p*CO<sub>2</sub> and temperature: a comparison of the buoyant weight and alkalinity anomaly methods. The Ocean in a High-CO<sub>2</sub> World 3<sup>rd</sup> International Symposium, Monterey CA, Poster 182.
- 2012 (84) \*Schoepf V, **Grottoli** AG, Warner ME, Cai WJ, Melman T, \*Baumann J, Matsui Y, Pettay D, Hoadley K, Wang Y, Xu H, Li Q, Hu X. Interactive effects of elevated *p*CO<sub>2</sub> and temperature on coral calcification and energy reserves. 12<sup>th</sup> International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (83) \*Levas S, **Grottoli** AG, Warner ME, \*Schoepf V, \*Baumann J, Aschaffenburg M, Matsui Y, Bauer J. DOC fluxes in healthy and bleached *Montastraea faveolata*, *Porites astreoides*, and *Porites divaricata* corals. 12<sup>th</sup> International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (82) **Grottoli** AG, Warner ME, \*Levas SJ, Aschaffenburg M, \*Schoepf V, McGinley M, Matsui Y. What combinations of coral species and Symbiodinium are more resilient to repetitive bleaching? 12<sup>th</sup> International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (81) \*Baumann J, **Grottoli** AG, \*Levas S, Matsui Y, \*Hughes A. Acquisition and Allocation of Carbon to Lipids of Bleached and Non-bleached Hawaiian Corals. 12<sup>th</sup> International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (80) Hoadley K, Pettay DT, Warner ME, **Grottoli** AG, Melman T, \*Baumann J, Matsui Y, Cai WJ, Hu X, Wang Y, Xu H, Li O. The impact of elevated CO<sub>2</sub> and temperature on the photosynthetic physiology and symbiosis stability of four Pacific reef-building corals. 12<sup>th</sup> International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2012 (79) Warner ME, **Grottoli** AG, Aschaffenburg MD, McGinley N, \*Levas S, \*Schoepf V. The impact of repetitive bleaching on the photobiology and balance of *Symbiodinium* distributions in

- three Caribbean corals. 12<sup>th</sup> International Coral Reef Symposium (ICRS), Cairns, Australia.
- 2011 (78) **Grottoli** AG, Cai WJ, Warner M, Melman T, \*Schoepf V, \*Baumann J, Matsui Y, Pettay DT, Hoadley K, Xu H, Wang Y, Li Q, Hu X. Interactive effect of elevated CO<sub>2</sub> and temperature on coral physiology. American Geophysical Union (AGU) Meeting, San Francisco, CA Abstract number OS33B-1667.
- 2011 (77) Bauer JE, Guo L, Perkey DW, Raymond P, Bianchi TS, **Grottoli** AG, Matsui Y. Divergent Radiocarbon Age Distributions of Carbon Pools in a Major Temperate River: Implications for Sources, Reactivity, and Land-Ocean Exchanges. American Geophysical Union (AGU) Meeting, San Francisco, CA Abstract number B32C-05.
- 2011 (76) \*Moyer R, **Grottoli** AG, Bauer JE. Carbon isotope (<sup>13</sup>C and <sup>14</sup>C) biogeochemistry of small mountainous rivers and coastal coral skeletons in Puerto Rico. Geological Society of America Annual Meeting, Minneapolis, Abstract# 194651
- 2011 (75) **Grottoli** AG, Warner ME, \*Levas SJ, Aschaffenberg MD, Schoepf V, McGinley MP. The effect of repeat bleaching on coral species-algal symbiont type combinations and resilience. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (74) \*Levas SJ, \*Schoepf V, Warner ME, **Grottoli** AG. Energy reserves and calcification of bleached *Montastraea faveolata*, *Porites astreoides*, and *Porites divaricata*. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (73) \*Schoepf V, \*Levas SJ, Warner ME, **Grottoli** AG. The effect of repeat bleaching on energy reserves of three Caribbean coral species. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (72) McGinley MP, Aschaffenberg MD, **Grottoli** AG, Levas SJ, Schoepf V, Warner ME. Temporal dynamics of *Symbiodinium* populations in Caribbean corals following a repetitive bleaching experiment. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (71) \*Huey TM, **Grottoli** AG, Matsui Y. Land-use impact on the character and age of carbon in small temperate streams. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (70) \*Borg D, **Grottoli** AG, Olesik J. Natural Variability of Trace Metals in Two Species of Sclerosponges from Palau and Saipan. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (69) \*Baumann J, **Grottoli** AG, \*Levas S, \*Schoepf V, Warner M. The effects of repeat bleaching on P/R and feeding rates of three species of Caribbean coral. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (68) Bauer JE, \*Moyer RP, Raymond PA, **Grottoli** AG. Divergence in global riverine DOC and POC ages: implications for the carbon cycle. American Society of Limnology and Oceanography (ASLO) Ocean Science Meeting, San Juan, Puerto Rico.
- 2011 (67) \*Levas SJ, **Grottoli** AG, \*Hughes AD, Pease TK. Energy reserves, calcification, and carbon allocation of bleached *Porites lobata*. Minorities Striving and Pursuing Higher Degrees of Education in Earth Sciences Phase III, National Sciences Foundation, Washington D.C.
- 2010 (66) **Grottoli** AG, \*Hughes AD, Pease TK, Osburn CL. The effect of bleaching on dissolved organic carbon (DOC) production in three species of Hawaiian corals. 2010 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Portland, OR
- 2010 (65) \*Levas S, **Grottoli** AG, \*Hughes AD, Pease TK. Energy reserves, calcification, and carbon

- allocation of bleached *Porites lobata*. 2010 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Portland, OR
- 2010 (64) \*Matsui Y, **Grottoli AG**, \*Huey T. Natural variability and sources of dissolved and particulate carbon in the streams of small watersheds of various land-use types within the North Appalachian Experimental Watershed in Ohio. 2010 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Portland, OR
- 2010 (63) Bauer JB, \*Moyer R, **Grottoli AG**. Carbon isotope geochemistry of tropical small mountainous river systems and adjacent coastal waters of Puerto Rico. 2010 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Portland, OR
- 2010 (62) Gray RE, Polyak L, Crawford KA, Council EA, Darby DA, **Grottoli AG**. Depth-dependent sedimentation patterns on the Mendeleev Ridge, Central Arctic Ocean. Presentation at the 40th International Arctic Workshop, Winter Park, CO.
- 2009 (61) Kilbourne KA, \*Moyer RP, Quinn TM, **Grottoli AG**. Testing coral-based tropical cyclone reconstructions: an example from Puerto Rico, Second International Summit on Hurricanes and Climate Change, Corfu, Greece, Aegean Conference Series, vol. 41, p. 69, abstract 49, May 31-June 5
- 2008 (60) \*Williams B, **Grottoli AG**. High-resolution  $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ , and trace element records from a western tropical Pacific near-surface black coral and a mid-water soft coral. Fall AGU, San Francisco, CA
- 2008 (59) LaVigne M, Anagnostou E, Cobb K, Field MP, **Grottoli AG**, \*Matthews KA, Lazar B, Wellington GM, Sherrell RM. Phosphorus in coral skeleton: Evidence and species-specific global calibrations for a novel seawater phosphate proxy. Fall AGU, San Francisco, CA
- 2008 (58) \*Moyer R, **Grottoli AG**. Corals as recorders of land-ocean carbon transport in Puerto Rico using stable carbon isotopes and Ba/Ca. 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (57) \*Williams B, **Grottoli AG**. Comparison of stable isotope records from a western Pacific shallow-water soft coral and a black coral. 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (56) \*Chrystal A, **Grottoli AG**, \*Rodrigues L. Identification of bleaching events in coral skeletal records using high-resolution stable isotope and trace element records. 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (55) \*Rodrigues LJ, **Grottoli AG**, Lesser M. Long-term Changes in the Chlorophyll Fluorescence of Bleached and Recovering Corals from Hawaii. 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (54) **Grottoli AG**, \*Hughes AD, Pease TK. Acquisition and allocation of carbon in bleached Hawaiian corals. 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (53) \*Palardy J, \*Rodrigues L, **Grottoli A**. The importance of zooplankton to the total energy budget of healthy and bleached corals at two depths. 11<sup>th</sup> International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 (52) LaVigne M, Anagnostou E, Cobb K, Field MP, **Grottoli AG**, Linsley B, Sherrell RM, Wellington GM. Coralline P/Ca: Evidence for a new seawater  $\text{PO}_4$  proxy. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2008 (51) \*Moyer R, **Grottoli AG**. Stable and Radiocarbon Isotopes in Corals and Adjacent Natural Waters: Land-Use Change, Land-Ocean Carbon Flux and Coral Reefs. American Society of

Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL

- 2008 (50) \*Hughes AD, Grottoli AG, Pease TK. Recovery from bleaching: autotrophic and heterotrophic carbon acquisition in two Hawaiian corals during recovery from thermally-induced bleaching. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2008 (49) **Grottoli** AG, \*Hughes AD, Pease TK. Acquisition and allocation of carbon in bleached Hawaiian corals. 2008 American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2008 (48) Hurley LEA, \*Hughes AD, **Grottoli** AG, Pease TK. Variability in the lipid class and isotopic compositions of the Hawaiian coral *Porites compressa*, and its symbiotic zooxanthellae. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Orlando, FL
- 2007 (47) \*Matthews KA, **Grottoli** AG, McDonough WF, \*Palardy JE. High resolution coral Cd measurements using LA-ICP-MS and ID-ICP-MS: calibration and interpretation. American Geophysical Union Fall 2007 Meeting, San Francisco, CA.
- 2007 (46) \*Adler R, Polyak L, Ortiz J, **Grottoli** AG, Kaufmann D. Late Quaternary Paleoceanography of the Mendeleev Ridge, Central Arctic Ocean: Planktonic Foraminiferal Composition and Stable Isotopy, Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract PP51A-0183
- 2007 (45) Sherrell RM, LaVigne M, Anagnostou E, Field MP, **Grottoli** A, Wellington J, Adkins J, Gagnon A. A P/Ca proxy for seawater phosphate in surface and deep-sea corals: application to laser ablation and solution phase HR-ICP-MS. Chemical Oceanography Gordon Conference, Tilton, NH, August 2007
- 2007 (44) **Grottoli** AG. Calcification in sclerosponges: implications for reconstructing CO<sub>2</sub> fluxes in the tropics. American Society of Limnology and Oceanography, Santa Fe, NM, p. 68
- 2007 (43) \*Matthews KA, **Grottoli** AG, McDonough WF. Natural variability of coral Cd/Ca from an upwelling region: implications for proxy record interpretation. American Society of Limnology and Oceanography, Santa Fe, NM, p. 116-117
- 2007 (42) \*Moyer RP, **Grottoli** AG. Stable- and radiocarbon isotopes in corals and adjacent natural waters: reconstructing land-use change and the land-ocean carbon cycle. American Society of Limnology and Oceanography, Santa Fe, NM, p.126
- 2007 (41) \*Williams BD, **Grottoli** AG. Carbon and nitrogen stable isotopes from gorgonian soft corals as recorders of nutrient fluxes in the western equatorial Pacific. American Society of Limnology and Oceanography, Santa Fe, NM, p. 194
- 2007 (40) \*Adler R, Polyak L, Kaufman DS, **Grottoli** AG. Sedimentary record of the last two glacial (stadial) cycles on the Mendeleev Ridge, central Arctic Ocean. 37th International Arctic Workshop, Program and Abstracts May 3-5, 2007. The Earth Science Institute, University of Iceland, pp. 272.
- 2007 (39) Hurley L, \*Hughes AD, **Grottoli** AG, Pease TK. Spatial variability of  $\delta^{15}\text{N}$  and  $\delta^{13}\text{C}$  in tissues of the Hawaiian coral *Porites compressa*. Estuarine Research Federation, Providence RI, Nov 2007
- 2007 (38) \*Hughes AD, **Grottoli** AG, Pease TK. Thermally induced bleaching alters carbon flow between host, symbiont and skeleton in two Hawaiian corals. Estuarine Research Federation, Providence RI, Nov 2007
- 2006 (37) \*Moyer R, **Grottoli** AG. Stable carbon isotopes in coastal Puerto Rico corals and adjacent natural waters: implications for land-ocean connectivity and land-use history. American Society

- of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Honolulu, Abstract # OS25J-14
- 2006 (36) **Grottoli** AG. Calibration and natural variability of skeletal stable carbon isotopes in the Pacific sclerosponge *Acanthocheatetes wellsi*: implications for reconstructing CO<sub>2</sub> uptake in coastal tropical environments. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, Honolulu, Abstract #OS35G-14
- 2006 (35) **Grottoli** AG. Corals and sclerosponges as geochemical recorders of past climate change. American Association of Petroleum Geologists and the Society of Sedimentary Geology, April 13-14, Houston, TX.
- 2006 (34) **Grottoli** AG, \*Rodrigues LJ, \*Palardy JE. Heterotrophic plasticity, energy reserves, and resilience in bleached corals. Benthic Ecology Meetings, Quebec, Canada
- 2006 (33) \*Rodrigues LJ, **Grottoli** AG, Pease T. Lipid classes in bleached and recovering *Porites compressa* and *Montipora capitata* corals from Hawaii. Benthic Ecology Meetings, Quebec, Canada
- 2005 (32) \*Matthews KA, McDonough WF, **Grottoli** AG. Natural variability of coral Cd/Ca using a novel isotope dilution ICP-MS method. American Geophysical Union Fall Meeting, San Francisco
- 2005 (31) \*Palardy, JE, \*Rodrigues, LJ, **Grottoli**, AG. Heterotrophic input in three species of healthy and bleached reef-building corals. 90th Annual Meeting of the Ecological Society of America. August 7-12, 2005. PAL-1109-620265
- 2005 (30) \*Palardy JE, \*Rodrigues LJ, **Grottoli** AG. Feeding rates in healthy and bleached reef-building Hawaiian corals. Benthic Ecology Meetings, Williamsburg, VA
- 2005 (29) \*Rodrigues LJ, **Grottoli** AG. Energy reserves and metabolism in bleached and recovering *Porites compressa* and *Montipora capitata* corals from Hawaii. Benthic Ecology Meetings, Williamsburg, VA
- 2005 (28) **Grottoli** AG, Adkins JF, Moots K. Natural variability in skeletal growth rate, stable isotopes, and Sr/Ca composition in two species of Pacific sclerosponges (*Acanthocheatetes wellsi* and *Astroclera welleyana*). Benthic Ecology Meetings, Williamsburg, VA
- 2004 (27) \*Rodrigues LJ, **Grottoli** AG. Stable oxygen ( $\delta^{18}\text{O}$ ) and carbon ( $\delta^{13}\text{C}$ ) isotopes in the skeleton of bleached and recovering corals from Hawaii. American Geophysical Union Fall Meeting, San Francisco, CA, B14B-08
- 2004 (26) \*Matthews K, **Grottoli** AG, McDonough WF, \*Palardy JE. Natural variability of environmental proxies in corals from an upwelling region. American Geophysical Union Fall Meeting, San Francisco, CA PP23B-1429
- 2004 (25) **Grottoli** AG. Stable carbon isotopes ( $\delta^{13}\text{C}$ ) in coral skeletons: experimental approach and applications for paleoceanography. American Geophysical Union Fall Meeting, San Francisco, CA, B14B-07
- 2004 (24) \*Rodrigues LJ, **Grottoli** AG. Lipids, carbohydrates, and proteins in bleached and recovering corals from Kaneohe Bay, Hawaii. 10<sup>th</sup> International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (23) \*Palardy JE, **Grottoli** AG, \*Matthews K. The effect of morphology, polyp size and depth on feeding in three species of Panamanian corals. 10<sup>th</sup> International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (22) **Grottoli** AG, Gibb O. Stable carbon isotope records in a Palau sclerosponge. 10<sup>th</sup> International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (21) \*Matthews KA, **Grottoli** AG, McDonough WF, \*Palardy JE. The effect of upwelling,



- species and depth on the natural variability of cadmium in three species of Panamanian corals. 10<sup>th</sup> International Coral Reef Symposium, June 28-July 2 Okinawa, Japan
- 2004 (20) **Grottoli AG**. Stable carbon isotopes ( $\delta^{13}\text{C}$ ) in corals: An experimental approach and applications for paleoceanography. Goldschmidt Conference, Copenhagen, Denmark. Abstract # 0.0.12. *Geochimica et Cosmochimica Acta* 68(11):A22 supp
- 2004 (19) **Grottoli AG**, Gibb O. Stable carbon and oxygen isotope records in a Palau sclerosponge. Goldschmidt Conference, Copenhagen, Denmark. Abstract # 4.63.25, *Geochimica et Cosmochimica Acta* 68(11): A474 supp
- 2004 (18) **Grottoli AG**. River discharge and coral reefs: effects of terrestrially derived sediments on corals in the Guanica Preserve, Puerto Rico over the past century. Woodrow Wilson National Fellowship Retreat. Princeton, New NJ, Oct 2004.
- 2004 (17) Palardy JE, **Grottoli AG**, \*Matthews K. The effect of morphology, polyp size and depth on feeding in three species of Panamanian corals. The 33rd Annual Marine Benthic Ecology Meeting, Mobile Alabama. March 26-28. Abstract 10362
- 2004 (16) **Grottoli AG**, \*Rodrigues LJ, \*Juarez C. Effect of bleaching on the coral host total lipid content, lipid class composition, and skeletal stable isotopic composition. The 1<sup>st</sup> Annual Combined Effects Think Tank to Support CREWS Modeling. March 2003, LSI Bahamas.
- 2003 (15) Hönisch B, Hemming NG, **Grottoli AG**, Amat A, Hanson GN, Bijma J. The effect of light, respiration and  $p\text{CO}_2$  on  $\delta^{11}\text{B}$  in coral skeletons: results from culture and field experiments. European Geological Society – American Geophysical Union Joint Assembly, Nice, France.
- 2003 (14) **Grottoli AG**, Gibb O, Wellington GM. Pre-treatment effects on coral skeletal  $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$ . American Geophysical Union Fall Meeting, San Francisco. Abs. PP11A-0198
- 2002 (13) **Grottoli AG**. Stable carbon isotope record in a Palau Sclerosponge. American Geophysical Union Fall Meeting, San Francisco. PP51A-0287
- 2002 (12) \*Rodrigues LJ, **Grottoli AG**, \*Juarez C. Effect of bleaching on lipid biomass in two Hawaiian coral species. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting 2002, Honolulu Abs. OS21F-124
- 2002 (11) **Grottoli AG**, Gille ST, Druffel ERM, Dunbar RB. Radiocarbon in a Fanning Island coral: inter-decadal variability in waters upwelling in the central equatorial Pacific from 1922 - 1955. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting 2002, Honolulu.
- 2000 (10) **Grottoli AG**, Druffel ERM, Gille ST, Dunbar RB. Identification of seasonal-to-decadal timescale variations in the zonal currents of the central equatorial Pacific prior to 1955 using  $\Delta^{14}\text{C}$  in coral. American Geophysical Union Fall Meeting, San Francisco. Abs. OS22H-02
- 2000 (9) **Grottoli AG**, Druffel ERM, Gille ST, Dunbar RB. Identification of seasonal to decadal timescale variations in the zonal currents of the central equatorial Pacific prior to 1955 using  $\Delta^{14}\text{C}$  in coral. 9<sup>th</sup> International Coral Reef Symposium, Bali, Indonesia. Abs. A17.16
- 2000 (8) **Grottoli AG**. Stable carbon isotopes in coral skeletons. American Society of Limnology and Oceanography and American Geophysical Union Ocean Sciences Meeting, San Antonio, TX Abs. OS21N-04
- 2000 (7) \*Juarez C, **Grottoli AG**. Lipid concentrations in bleached and non-bleached Hawaiian corals. UC-Irvine Undergraduate Research Forum.
- 1999 (6) **Grottoli AG**. Interpretation of stable carbon isotopes in reef coral skeletons and applications for paleoclimate reconstruction. Dissertation Initiative Advancement of Limnology and Oceanography (DIALOG III) p.56
- 1999 (5) **Grottoli AG**. Interpretation of stable carbon isotopes in reef coral skeletons and applications

- for paleoclimate reconstruction. Dissertation Symposium on Chemical Oceanography (DISCO XV), Honolulu, HI p.6
- 1998 (4) **Grottoli** AG. Coral skeletal  $\delta^{13}\text{C}$  as a paleo-tracer of solar irradiance levels and zooplankton concentrations: an experimental approach. American Geophysical Union Fall Meeting, San Francisco. Abstract OS41A-10
- 1997 (3) **Grottoli**-Everett AG. Effect of irradiance and heterotrophy on the stable carbon isotopic ( $\delta^{13}\text{C}$ ) composition of scleractinian corals. United States Environmental Protection Agency Science to Achieve Results (STAR) Graduate Fellowship Program: Technical Conference, June 16-17, Research Triangle Park, North Carolina. EPA/600/R-97/049, p70
- 1996 (2) **Grottoli**-Everett AG, Wellington GM. Effect of light and zooplankton on skeletal  $\delta^{13}\text{C}$  in the eastern Pacific corals *Pavona clavus* and *P. gigantea*. 8<sup>th</sup> International Coral Reef Symposium, Panama. Abstract p. 78
- 1996 (1) **Grottoli**-Everett AG. The effect of bleaching on lipid levels in the coral *Montipora verrucosa*. American Society of Zoologists, St. Louis, MO. Abstract in: American Zoologist 34(5):70a

### MEETINGS ATTENDED

8<sup>th</sup> -15<sup>th</sup> International Coral Reef Symposium 1996, 2000, 2004, 2008, 2012, 2016, 2021, 2022  
 34<sup>th</sup> - 36<sup>th</sup> International Coral Reef Initiative General Meeting (presenter) 2019, 2021, 2022  
 American Geophysical Union Fall Meeting (AGU) 1999, 2001 – 2005, 2011, 2018, 2021, 2023  
 American Society of Limnology and Oceanography (ASLO) Meeting 2007, 2009, 2011  
 Ocean Sciences Meeting (ASLO/AGU) 2000, 2002, 2006, 2008, 2010  
 American Association for the Advancement of Science Meeting 2018  
 The Ocean in a High-CO<sub>2</sub> World 3<sup>rd</sup> International Symposium (2012)  
 Dissertation Symposium on Chemical Oceanography (DISCO XV) 1999  
 Environmental Protection Agency (EPA) Technical Conference 1997  
 Byrd Center Symposium for Climate Research 2019, 2020, 2023  
 Ocean Acidification PI Meeting (NSF-OCB) 2013  
 American Society of Zoologists Meeting 1994  
 Benthic Ecology Meeting 2005, 2006  
 Goldschmidt Conference 2004  
 Reef Futures 2018, 2021, 2024  
 Metaphors of Time 2018  
 Startup Midwest 2023  
 Symbiofest 2019

### PROFESSIONAL MEMBERSHIPS

International Coral Reef Society (lifetime member, Fellow)  
 American Association for the Advancement of Science (Fellow)  
 Association for the Study of Limnology and Oceanography  
 American Geophysical Union  
 Geochemical Society  
 The Ohio Academy of Sciences  
 Sigma Xi

### PUBLICITY and MEDIA OUTREACH

2002 Interviewed and quoted in “Female Profs Talk About Their Careers” Daily Pennsylvanian, Feb

- 2003 Interviewed and quoted in “Science Lacking in Female Faculty” Daily Pennsylvanian, 29 Oct
- 2005 Interviewed and featured in “Carbon Counter: The Undersea/Oversea World of Andrea Grottoli” PENN Arts and Science Magazine (Winter)
- 2006 **Grottoli et al (2006) Nature** paper media coverage:  
Press release in OSU Research News  
 Radio Interviews: NPR interview (Science Fridays Talk of the Nation) (28 April) ; Quirks and Quarks radio show interview (CBC Radio Canada) ; Earth Watch Radio  
 Selected Additional Press Coverage: Science (AAAS) online article ; Discovery Channel News article ; Christian Science Monitor article ; Nature News online article ; Scientific American article ; The Daily Grist article ; News Wise.com article ; Columbus Dispatch article ; Global Water News Watch article ; The Washington Post, Belgian Popular-Scientific monthly, Eos
- 2007 Media coverage of Press Conference at the Ocean Sciences meeting (4 March): Science Daily article; Physorg.com article ; Newswise.com article
- 2008 **LaVigne et al. (2008)** Geophysical Research Letters media coverage: AGU Editor’s Choice highlights article ; Science Magazine Editor’s Choice article
- 2008 National Science Foundation - Multimedia Communications interview for 14-part video series on “To What Degree: What Science Tells us About Climate Change” by the Research Channel
- 2008 Interviewed and quoted in: “Mission: implausible: the desperate plight of coral reefs has led to some extraordinary rescue plans. Mark Schrope weighs them up.” By Mark Schrope. New Scientist 200.2678: p28(4), 18 Oct
- 2010 Grottoli research featured in Global Perspective (OSU Office of International Affairs publication)
- 2010 Field research experience for undergrads featured by Office of International Affairs – Get a Passport campaign. Posters were displayed on campus buses and at other locations.
- 2010 Interviewed and quoted in “Nas Caraíbas existem corais que conseguem sobreviver ao calor” by Helena Geraldês in Portuguese e-news (PÚBLICO www.publico.pt)
- 2010 **Williams & Grottoli (2010)** Geophysical Research Letters media coverage:  
 Press releases: OSU article ; AGU article  
 Australian Broadcasting Company Radio interview  
 Select additional press coverage: Nature highlights article ; Msnbc article ; World News article ; USA today article ; Science daily article ; Eurekalert article ; Pollution online article ; Yahoo article; Summit County Voice article ; Our Amazing Planet article ; Ocean Leadership article
- 2010 National Science Foundation Press release article for Grottoli NSF-funded OA research
- 2011 **Edge of Light** OSU Video Feature of Grottoli coral research
- 2011 Interviewed and featured in “An Ocean of Trouble” by Dylan Tussel in the Columbus Dispatch
- 2011 Video interview and by American Reef for Ocean Acidification and Global Warming Coral Project research Part I ; Part II
- 2009 – present Grottoli @CoralResearch Twitter Micro-blog of ongoing coral research
- 2014 Interviewed and quoted in EPA STAR interview “Fellow Success Story”, Jan
- 2014 Interview with Mary McLaughlin, assistant to Franklin County Commissioner Paula Brooks on the Presidential Task Force on Climate Preparedness and Resilience, about the impact of ocean acidification and global change on Ohio, 9 April
- 2014 Interview with high school student Zain about ocean acidification and global change, 4 April
- 2014 **Grottoli et al. (2014)** Global Change Biology media coverage:  
 OSU Press release article  
 NSF Science 360 Breaking news cover story ; Science News SciGuru.com article ; Smithsonian.com article ; Ensia article

- 2014 Grottoli undergraduate student Casey Saup featured in OSU College of Arts and Sciences [Current Student Research Profile](#)
- 2014 Interview and featured in Westfall High School newspaper The Echo 50(3):5 by Leah Solomon
- 2015 Interviewed and featured in “[Ohio State, U. Hawaii Scientists Test Ability Of Corals To Adapt To Acidification](#)” by Daniel Kelly, Environmental Monitor, Sep.
- 2015 ***TEDx OSU Grottoli invited speaker (14 Feb) Our Coral Connection***
- 2015 ***Schoepf et al. (2015) Proceedings of the Royal Society B*** media coverage:  
 Press Releases: OSU press release [article](#) ; UWA press release [article](#); U Delaware press [article](#)  
 Radio Interview: ABC Radio Geraldton [interview](#), Australia 17-11-15  
 RTR FM 92.1 Perth, Australia, The Mag Show [interview](#) 23-11-15  
 Select additional press coverage: Press release point [article](#) ; Science World Report [article](#) ;  
 Gulf News [article](#) ; Customs Today [article](#) ; International Business Times [article](#) ;  
 Environmental Monitor [article](#) ; ABC The Drum [article](#) ; EurekaAlert! [article](#) ;  
 ClimateWire [article](#)
- 2015 “[As the Earth enters its third mass bleaching event, will corals survive?](#)” by Andrea Grottoli (20 Nov 2015) The Conversation  
 ➤ 9,222 unique reads, republished by IFLScience, The Huffington Post, Honolulu Civil Beat, others
- 2015 Interviewed and quoted in “[Warm El Nino Water Killing Pacific Corals](#)” by Eric Niller in Discovery News, 2 Dec
- 2016 Interviewed and featured in “Resilient Reefs” by D Kelly Environmental Monitor. p.47-48, Winter
- 2016 Interviewed and quoted in “[Corals Experiencing Record-long Bleaching from El Nino](#)” by Pola Lem in ClimateWire, 25 Feb
- 2016 ***Cai et al 2016 Nature Communications*** media coverage: UD press release [article](#)
- 2016 Interviewed and quoted in “[Coral researchers look for ways to connect science](#)” by Pola Lem, in ClimateWire, 7 April
- 2016 Interviewed and quoted in “[Shocking Before-and-After Photos of the World’s Coral Bleaching Catastrophe](#)” by Claudia Geib in Atlas Obscura, 19 April
- 2016 Interviewed and quoted in “[What we can learn from watching video of coral lose its color](#)” by Joseph Dussault, Christian Science Monitor , 18 Aug
- 2016 Interviewed on Press Play with Madeleine Brand (KCRW in Los Angeles, CA) about “[Is the Great Barrier Reef really dead?](#)” 16 Oct
- 2016 Interviewed by Eric Niller and quoted in “[Climate Scientists Fear Trump Budget Cuts and Wonder What He Really Believes](#)” Seeker 7 Dec
- 2017 Interviewed by Eva Botkin-Kowacki and quoted in “[From coral sperm banks to climate action: What’s best to save reefs?](#)” Christian Science Monitor, July
- 2017 ***Grottoli AAAS Fellow*** media coverage: AAAS 2017 Fellows [announcement](#) ; OSU [announcement](#) ; OSU Press release [article](#); School of Earth Sciences [announcement](#) ;
- 2017 Interviewed and quoted in “[Can ‘super-corals’ save the reefs?](#)” by Eva Botkin-Kowaski in Christian Science Monitor, Dec
- 2018 ***Grottoli et al (2018) PLoS ONE*** media coverage:  
 OSU press release [article](#) ; School of Earth Sciences News [article](#)  
 Selected additional press coverage: Newswise [article](#) ; EurekaAlert! [article](#) ; PhysOrg [article](#) ;  
 Science Daily [article](#) ; R&D Magazine – Online [article](#) ; ScienceNewsline [article](#) ;  
 Environment Guru [article](#) ; Ocean Sentry [article](#) ; Lab Manager Magazine [article](#); Global News Connect [article](#) ; WorldScience [article](#) ; Ocean acidification News stream [article](#) ;

- Microbiome Digest [article](#) ; Science360News Picture of the Day [article](#)
- 2018 Interviewed and quoted in “[Even Corals Have Microbiomes](#)” by Jason G. Goldman in Hakai Magazine, February
- 2018 Interviewed and quoted in “[Can Coral Microbes Protect Reefs from Climate Change?](#)” by Amelia Urry in Oceans Deeply, March
- 2018 Interviewed and quoted in “[There’s still time for us to save the Great Barrier Reef](#)” by Amelia Urry in Popular Science, April
- 2018 Interviewed by 6<sup>th</sup> Grader Alexios Dulcinea on corals and climate change
- 2019 Interviewed for Batelle Podcast on “[Ocean Pollution, Coral Bleaching, and the Great Pacific Garbage Patch](#)” by Samuel Bodary
- 2019 Interviewed and quoted in “[Science shutdown an experiment in fear, frustration](#)” by Michael Doyle in ENews, Jan
- 2019 Interviewed and featured in “[Coral Microbiomes Offer Clues for Resilience and Conservation](#)” by Emily Portecorvo, EOS, Jan
- 2019 Interviewed and featured in “[Earth sciences professor puts Ohio State on the map of coral research](#)” by Jimmy Bingman, The Lantern, 13 March
- 2019 Grottoli AG, 2019 [Coral Bleaching Research Coordination Network Workshop](#), School of Earth Sciences News Notes, June
- 2019 College of Arts and Sciences at OSU News & Updates “[Coral bleaching research coordination network at Ohio State](#)” 10 July
- 2019 College of Arts and Sciences at OSU College News “[Network of global coral researchers converges at Ohio State](#)” 12 September
- 2019 ***Baums et al 2019 Ecological Applications*** media coverage:  
 OSU Press release [article](#) ; Penn State Press release [article](#) ; Secore Press release [article](#)  
 Featured in: [7 Bold Ways Scientists are Saving Coral Reefs](#), The Hill
- 2019 Interviewed and quoted in “[The world’s coral reefs are dying. Shedd scientists in the Bahamas are searching for a chance for their survival.](#)” by Steve Johnson, Chicago Tribune, 12 November
- 2020 Interviewed by book journalist Kristin Ohlson for her chapter on partnerships in the ocean in her book “Sweet in Tooth and Claw: the hidden cooperation and connection in nature”, 30 March
- 2020 Interviewed and quoted in “[The super-corals of the Red Sea.](#)” by Sunny Fitzgerald, BBC Future Planet, 8 April
- 2020 Featured in School of Earth Sciences Alumni News and Notes “[Professor Andrea Grottoli Awarded 2020-2021 U.S. Fulbright Award to France](#)” April
- 2020 Research publication featured in School of Earth Sciences Alumni News and Notes “[Grottoli group publishes new work on coral experiments](#)” May
- 2020 Interviewed and featured in “[Expert interview with Prof. Andréa Grottoli](#)” by EcoMagazine, pp8-9, June
- 2020 Grottoli featured in Ohio State Alumni Magazine “[Beauty is all around](#)” by Laura Newpoff, Fall
- 2020 Grottoli featured in SES Alumni News Notes (October) “[Prof Grottoli featured in OSU alumni magazine](#)”
- 2020 USGS press release “[SPCMSC coral team and Ohio State researchers travel to the Florida Keys to complete coral growth study](#)”, 21 Oct
- 2020 The Ohio State University School of Earth Sciences #MeetTheScientistMonday featuring [Dr. Andrea Grottoli](#)
- 2020 ***Grottoli et al 2020 Ecological Applications*** media coverage:  
 OSU Press release [article](#) ; University of NY at Buffalo press release [article](#) ;

- Penn State press release [article](#)
- 2020 Grottoli featured in SES Alumni News Notes (November) “[Professor Andrea Grottoli and her team conduct fieldwork in the Florida Keys to study endangered Elkhorn corals](#)”
- 2020 Grottoli work with the International Coral Reef Society Press Release “[12 Things You can Do to Help Save Coral Reefs](#)” by Laura Arenschiold, 15 Oct
- 2020 Grottoli featured in SES Alumni News Notes (December) “[Prof Grottoli Studies Elkhorn Corals in the Dry Tortugas](#)”
- 2021 Grottoli interviewed by Ramin Skibba and quoted in “[Gardener of the Sea](#)” Pomona College Magazine 23 March 2021
- 2021 Interviewed by Sara Harrison and quoted in “[This Evolutionary Gift May Protect Coral From Climate Change](#)” Wired Magazine 24 May 2021
- 2021 Grottoli featured in “[Raising our Voice for Coral Reefs on World Oceans Day](#)”
- 2021 Grottoli co-signer of letter to UNESCO asking for more protection for the Great Barrier Reef, 1 July. [Press release](#) and [letter](#)
- 2021 [Grottoli interviewed](#) by ZDF German television (16 July) regarding the upcoming International Coral Reef Symposium and the Science to Policy Paper. (starts at 11:42min)
- 2021 [Grottoli interviewed](#) by Anna Berkhout at German Public Broadcast television, 19 July regarding upcoming International Coral Reef Symposium.
- 2021 Interviewed by Susi Weichselbaumer for German Public Radio, 21 July
- 2021 **Knowlton, Grottoli et al (2021)** media coverage:  
     OSU press release [article](#) ; ICRI Press release [article](#) ; The Conversation [article](#)
- 2021 Grottoli interviewed by Aubrey White in “[Grottoli continues coral research in Mediterranean](#)” for OSU Office of International Affairs, 10 Dec
- 2021 Grottoli featured in SES Alumni News and Notes “[Grottoli continues coral research in Mediterranean](#)” Dec 2021
- 2022 **McLachlan et al (2022) Scientific Reports** media coverage:  
     Ohio State [press release](#)                      Oregon State [press release](#)  
     University of Hawaii [press release](#)        Honolulu Star Advisor [article](#)  
     National Geographic [news Story](#)        NBCNews [story](#)  
     Yahoo News [article](#)                        Nature Research [highlights](#)  
     Ecowatch [article](#)                         Earth.com [article](#)  
     Zenger News [article](#)                      Good News Networks [article](#)  
     SES News and Notes [article](#)  
     Scientific American Climate Change 60-second Science [podcast](#)  
     Wikipedia “2022 in Climate Change” natural events and phenomena [entry](#)  
     Altmetrics of [330](#) and counting: top 5% of all research output scored by Altmetrics, 99<sup>th</sup> percentile of studies that came out at the same time
- 2022 [van Woesik et al \(2022\) Global Change Biology](#) media coverage:  
     Florida Institute of Technology [press release](#)  
     Ohio State University [press release](#)  
     SES News and Notes [article](#)
- 2022 Grottoli interviewed by Michele Redmon from WeatherFlow about coral restoration and mesoscale sanctuaries, 14 June
- 2022 Grottoli interviewed by Kai Niklasch for ZDF German television about the 15<sup>th</sup> ICRS Symposium, 1 July
- 2022 Grottoli interviewed by Radio Bremen TV about the 15<sup>th</sup> ICRS Symposium at the Coral Reef photo exhibit at the House of Science Bremen, 3 July



- 2022 Grottoli panelist for 15<sup>th</sup> ICRS Symposium press conference, 5 July
- 2022 Grottoli interviewed by Rebecca Hahn for the German newspaper Frankfurter Allgemeine Sonntagszeitung “Kümmert euch alle um die Koralle” 10 July
- 2022 Grottoli research featured in “Coral Resilience: Determining the fate of coral in a changing climate” by Lori Balster in Environmental Monitor, 5 Sept
- 2022 Grottoli interviewed by undergraduate student Morgan Vincent from Kent State University as a coral reef expert 10 October
- 2022 Grottoli oceanography class featured in SES Alumni News and Notes *Advanced Oceanography Class Discovers the Ocean in Ohio*, Dec
- 2023 Grottoli hosts Columbus School for Girls students meet with Bownocker speaker Dr. Lindy Elkins-Tanton in SES Alumni News and Notes, Feb
- 2023 Grottoli featured for Pacifica Radio REEF Roundup Podcast by Graham Petterson in “Science or Policy? No, we need both! With Dr. Andrea Grottoli” S2E9, Feb
- 2023 Grottoli interviewed by Samantha Baxter for “Coral resilience – determining the fate of coral in a changing climate” in Environmental Monitor, pp 46-47, Winter
- 2023 Grottoli interviewed by Ocean Visions for Ocean Visions Summit blog, May
- 2023 Chapron et al (2023) Nature Communications Earth & Environment media coverage :  
     Ohio State University press release  
     USGS press release
- 2023 Grottoli interviewed by Trista Battiata, Cumberland Regional High School, New Jersey, about coral reefs, coral bleaching, and climate change. 1 November
- 2023 Grottoli on-camera interviewed by OSU Marketing and Communications for Associate Press for the Climate Control Conference. 14 November
- 2024 Grottoli interviewed by Whitefish Bay Schools high school students Sophia Lozanova on coral bleaching. 3 March
- 2024 Grottoli interviewed by Ava Kauffman, communications student documentary project at Bowling Green State University. 17 April
- 2024 Grottoli interviewed by Franny Lazarus for “Coral reef exhibition opens at Ohio State” in Ohio State News, 17 April
- 2024 Grottoli team featured in Coral Restoration Foundation’s blog post “Feeding Coral Nurseries with UZELA: A New Hope for Coral Restoration”, 4 September
- 2024 Grottoli interviewed by Prof David Staley for the OSU College of Arts and Sciences Voices of Excellence podcast “Andréa G Grottoli: Will Coral Reefs Survive?” 25 September
- 2024 Dobson et al (2024) Nature Communications Earth & Environment media coverage :  
     Ohio State University Press Release  
     Picked up and reprinted by 6 news outlets (e.g., Earth.com story, Newswise story, Eureka Alerts story) and 3 blogs
- 2024 Grottoli interviewed by Eve Bernier for article in *Apostrophe*, 21 October
- 2024 Jury et al (2024) Proceedings of the National Academy of Sciences media coverage:  
     U Hawaii Press Release
- 2024 Grottoli nominated for the Frontiers Plante Prize by Ohio State University in “Ohio State Faculty Members Nominated for Sustainability Science Research Breakthroughs” press release. 12 December

**REVIEWER FOR**  
**Funding agencies**

National Science Foundation (Division of Ocean Sciences)  
National Ocean and Atmospheric Association (NOAA)  
NERC – Natural Environment Research Council of the UK  
Caribbean Marine Research Center, a NOAA/NURC program  
BARD, the United States - Israel Binational Agricultural Research & Development Fund  
Netherlands Organization for Scientific Research (NWO) Climate Variability Program  
The Leverhulme Trust  
OITI Report (NSF, ONR)

### **Journals**

Nature Climate Change Science (AAAS)	Proceedings of the National Academy of Sciences (PNAS)
Nature Climate Change	Geophysical Research Letters
Nature Communications	Frontiers in Marine Science
Science Advances	Limnology and Oceanography
Scientific Reports	Journal of Experimental Marine Biology and Ecology
Global Change Biology	Geochimica et Cosmochimica Acta
ISME Journal	Journal of Geophysical Research
Marine Biology	Marine and Freshwater Behavior and Physiology
Chemical Geology	Geochemistry, Geophysics, Geosystems
Paleoceanography	Marine Ecology Progress Series
Biological Reviews	Estuarine, Coastal and Shelf Science
Current Biology	Palaeogeography, Palaeoclimatology, Palaeoecology
PLoS ONE	Geology
Coral Reefs	Palaios

### **COLLABORATORS (in addition to co-authors)**

Rongun Qin, James Porter

### **SUPERVISOR OF GRANT SUPPORTED LAB MANAGERS of MY STABLE ISOTOPE BIOGEOCHEMISTRY LABORATORY**

Olivia Gibb (2001 – 2004)	Mary Cathey (2005)
Yohei Matsui (2006 – 2014)	Lindy Paddock (2015)

Managers oversaw the daily operation of the Delta IV Stable Isotope Ratio Mass Spectrometer, carbonate Kiel device, and Elemental Analyzer. They also trained students, ran external samples, prepared internal standards, completed maintenance, and managed the lab analytical budget.

### **MAJOR STUDENT OR POSTDOC ADVISOR**

#### ***PhD students***

- 1) **Shannon Dixon** (PhD candidate)  
Dissertation: *Enhanced zooplankton feeding as a tool for increasing coral growth and survival in a changing world*  
Awards: OSU Enrichment Graduate Entrance Fellowship, Friends of Orton Hall, PADI Foundation, Sigma Xi Grant
- 2) **Ann Marie Hulver** (PhD, 2024)

Dissertation: *Heterotrophy promotes coral resilience to ocean acidification and ocean warming*  
Awards: WHOI NOSAMS graduate student research award, CBRCN Early Career Award, Friends of Orton Hall, OSU Presidential Fellowship, Distinguished Senior PhD Graduate Student Spieker Book Award

3) **Rowan McLachlan** (PhD, 2021)

Dissertation: *Adaptation and acclimatization in Hawaiian corals to global climate change*  
Awards: Distinguished Senior Graduate Student Award (Spieker Book Award), Scottish International Education Trust, OSU Sigma Xi, National Sigma Xi, Friends of Orton Hall, Sutherland-Page Trust Scholarship, CBRCN Early Career Training Program Award  
Currently: Postdoc at Oregon State University

4) **Kerri Dobson** (PhD, 2021)

Dissertation: *Multiple stressor effects on coral physiology and biogeochemistry*  
Awards: National Sigma Xi, Alumni Grants for Graduate Research and Scholarship, Friends of Orton Hall (twice), Sea Grant John A Knauss Marine Policy Fellow  
Currently: Teaching Fellow in Marine Biology, University of Southampton

5) **James Price** (PhD, 2020)

Dissertation: *Influence of Environment and Climate Change on Coral-associated Microbial Communities and Trophic Strategies*  
Awards: OSU first year graduate fellowship, ISRS Graduate Scholarship, Geological Society of America GSR Award, Friends of Orton Hall (twice), OSU Presidential Fellowship, CBRCN Early Career Training Program Award, Sea Grant John A Knauss Marine Policy Fellow  
Currently: Program officer for Gulf Research Program's Offshore Energy Safety Board

6) **Geoffrey Dipre** (PhD 2019)

Dissertation: *A reconstruction of quaternary Arctic environments using a multi-proxy analysis of Arctic Ocean sediment cores*  
Awards: University Fellow, AMS Summer Policy Colloquium, Rick Toracinta Graduate Scholarship, Sea Grant John A. Knauss Marine Policy Fellow

7) **Verena Schoepf** (PhD 2013)

Dissertation: *Physiology and Biogeochemistry of Corals Subjected to Repeat Bleaching and Combined Ocean Acidification and Warming*  
Awards: Ohio State University Presidential Fellow, Lee Fund Fellow, Rotary Club Innsbruck Research Fellowship, Mayer Travel Fund,  
Currently: Assistant Professor and MacGillavry Fellow at the Institute for Biodiversity and Ecosystem Dynamics at the University of Amsterdam

8) **Stephen Levas** (PhD 2012)

Dissertation: *Biochemistry and Physiology of Bleached and Recovering Hawaiian and Caribbean Corals*  
Awards: National Science Foundation East Asia and Pacific Summer Institutes Program Fellow, Ford Foundation Minority Scholarship Fellow, Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science Scholar  
Currently: Associate Professor, University of Wisconsin – Whitewater

9) **Branwen Williams** (PhD 2009)

Dissertation: *Biogeochemistry of Alcyonacean and Antipatharian Corals in the Western Pacific*

*Warm Pool*

Awards: National Science and Engineers of Canada Graduate Fellow

Currently: Professor (tenured) at Claremont McKenna College

10) **Ryan P. Moyer** (PhD, 2008)

Dissertation: *Carbon Isotopes and Trace Elements in Small Mountainous Rivers and Coastal Coral Skeletons in Puerto Rico.*

Awards: Ohio State University Presidential Fellow, USGS Mendenhall Postdoctoral Fellow, St. Petersburg, FL

Currently: Senior Manager, Blue Carbon, Terra Carbon LLC

11) **Kathryn A. Matthews** (PhD, 2007)

Dissertation: *Cadmium in Coral Skeleton: Natural Variability and In Situ Calibration.*

Positions: Postdoctoral fellow at the Los Alamos National Laboratory, NM (2007-9), Congressional Postdoctoral Fellow, Washington, DC (2009-2010)

Currently: Deputy Chief Scientist at Oceana

12) **Lisa J. Rodrigues** (PhD, 2005)

Dissertation: *Physiology and Biogeochemistry of Bleached and Recovering Corals from Hawaii*

Positions: Postdoctoral Fellow, Department of Biology, Villanova University (2005-2008)

Currently: Professor (tenured), Villanova University

**MS students**

1) **Scott Kelsey** (M.S. 2016)

Thesis: *Impact of land use on headwater stream organic and inorganic carbon export in a temperate Midwestern experimental watershed*

Currently: laboratory technician at Ohio State University

2) **Justin Baumann** (M.S. 2013)

Thesis: *The Effects of Elevated Temperature Stress on the Acquisition and Allocation of Carbon to Lipids in Hawaiian Corals*

Currently: Visiting Assistant Professor at Bowdoin College

3) **Abbey E. Chrystal** (M.S. 2008)

Thesis: *Exploring Linear Extension and Stable Isotopes ( $\delta^{18}O$ ,  $\delta^{13}C$ ) as Proxies for Coral Bleaching in *Porites lobata*.*

4) **Ruth Adler** (M.S. 2008)

Thesis: *The first Late Quaternary sediment record from the western Arctic Ocean with a true millennial resolution: HOTRAX core HLY0503-08JPC, Mendeleev Ridge*

Awards: National Science Foundation GK-12 Graduate Fellow

Currently: Adjunct professor at Case Western University

5) **Henry Chun-Yi Wu** (MES, 2004)

Thesis: *Stable Isotope Records from Western Pacific Corals*

Current: Research Scientist and Working Group Leader at the Leibniz Center for Tropical Marine Research (ZMT)

**Undergraduates (senior thesis)**

- 1) **Lily Stark** (BS SES in progress)  
Thesis: *Documenting coral morphological changes over time using photogrammetry*
- 2) **Abby Smith** (BS SES in progress)  
Thesis: *Effect of UZELA on Acropora coral growth in nurseries*
- 3) **Emma van Buren** (BS SES in progress)  
Thesis: *Stable isotopic signature of coral provided enhanced zooplankton with UZELA*  
Awards: Second Year Transformational Experience Program Fellowship (STEP); Susie L. Shipley Undergraduate Scholarship
- 4) **Caroline McCoy** (BS Chemistry in progress)  
Thesis: *Biomass and pigmentation of corals provided enhanced zooplankton with UZELA*
- 5) **Mary Raker** (BS SENR in progress)  
Thesis: *Growth of corals provided enhanced zooplankton with UZELA*  
Awards: Rhoades CFAES Experiential Learning Fund award (2024)
- 6) **Marissa Johnston** (BS Zoology in progress)  
Thesis: *Biomass and pigmentation of corals provided enhanced zooplankton with UZELA*  
Awards: Second Year Transformational Experience Program Fellowship (STEP)
- 7) **Tony Caputo** (BS SES 2024, co-advised with Babcock)  
Thesis: *Development of an exhibit on the coral reef crisis for the Orton Geological Museum*  
Awards: OSU Summer 2023 Career Accelerator Fund
- 8) **Jacob Welter** (BS ENG 2024)  
Thesis: *Physiological responses of the resilient coral Stylophora pistillata to chronic elevated temperature*  
Awards: Denman Undergraduate Research Forum winner (3<sup>rd</sup> place, Earth and Beyond category).
- 9) **Zoe Watson** (BS SES, 2022)  
Thesis: *Effect of temperature and ocean acidification on the relationship between chlorophyll a and Symbiodinacea density in corals*
- 10) **Corbin Lanker** (BS SES, Research Distinction, 2022)  
Thesis: *Synthesis of publicly available carbonate chemistry data of the Mediterranean Sea*
- 11) **Sam Nortz** (BS BIOCHEM, Research Distinction, 2022)  
Thesis: *Effect of pH on carbohydrate concentrations of the Mediterranean coral Cladocora*
- 12) **Shannon Dixon** (BS SES and FAES, Research Distinction, 2021)  
Thesis: *Effect of chronic elevated temperature and acidity on coral endosymbiotic algal density*  
Awards: Honors and Scholars Enrichment Grant, 1<sup>st</sup> Place in Earth and Beyond 27th Richard J. and Martha D. Denman Undergraduate Research Forum, CFAES Distinguished Senior, FABLE Outstanding Senior Award, OSU Graduate Enrichment Fellowship
- 13) **Hailey Hayes** (BS SENR, 2020)  
Thesis: *Natural variability in the contribution of heterotrophic carbon to tissues of Pocillopora corals*  
Awards: Fletcher Scholarship, Food and Water Watch Fellowship
- 14) **Elton Nguyen** (BS EEOB, 2020)  
Thesis: *Development of an in vitro culture technique of Tridacna deresa clams*

Awards: OSU Undergraduate Student Academic Enrichment Grant, ASC Undergraduate Research Scholarship, OSU Undergraduate Research Apprenticeship Program (URAP), Second Year Transformational Experience Program Fellowship (STEP)

15) **Claire Juracka** (BS SENR Honors, Research Distinction, 2019)

Thesis: *The effects of enhanced feeding on the endosymbiotic algal cell density of bleached Montipora capitata corals in an acidified ocean*

Awards: Grottoli Undergrad Hoover Foundation Internship, OSU Undergraduate Research Apprenticeship Program (URAP)

Currently: MS Student at Northwestern University, Master of Science in Energy and Sustainability

16) **Andrea Wertz** (BS Microbiology, 2019)

Thesis: *Effect of bleaching and ocean acidification on coral pigmentation in Porites compressa corals.*

Awards: Denman Sustainability Institute Award, Grottoli Undergrad Hoover Foundation Internship

17) **Alexandra Smith** (BS Earth Science, Research Distinction, 2019)

Thesis: *Natural variability in the contribution of heterotrophic carbon to tissues of Hawaiian corals*

Awards: SURE scholar, Office of Energy and Environment Undergrad Research Grant, Undergraduate Student Government Academic Enrichment Grant, Kathryn Sullivan Scholarship Award, ASC Honors Undergraduate Research Scholarship, Meyer's Undergrad Summer Research Fellowship, Susie L Shipley Undergraduate Scholarship, Ohio EPA Environmental Science and Engineering Scholarship, Denman UG Research Forum winner, 3-Minute Thesis Competition First Place Winner

18) **Margaret Otto** (BEng, 2019)

Thesis: *Modeling pH and temperature manipulations in situ*

Awards: STEP scholar, Grottoli Undergrad Hoover Foundation Internship

Currently: MS in Biosystem Engineering at Auburn University (starting fall 2024)

19) **Sarah Solomon** (BS EEOB, 2018)

Thesis: *Lipid class composition of annually bleached Caribbean corals*

Awards: Grottoli Undergrad Hoover Foundation Internship (twice), ASC Undergrad Research Scholarship, National Sigma Xi, OSU Honors and Scholars Enrichment Grant, Denman UG Research Forum winner, NMS Science Forum Best Poster winner, Student research blog

<https://ugresearchtheohiostateuniversity.wordpress.com/2018/01/18/climate-change-sarah-solomon/>

Currently: PhD student at the University of Amsterdam

20) **John Armstrong** (BS EEOB, 2018)

Thesis: *Carbon budgets of bleached Hawaiian corals recovering under ocean acidification conditions*

Currently: MA student at Georgetown University

21) **Chloe Criswell** (BEng, 2018)

Thesis: *Dissipation of acidified water on a coral reef*

22) **Katherine Giesy** (BS Zoology, Research Distinction, 2017)

Thesis: *Effect of pH and temperature on carbon budgets of the Hawaiian corals Porites lobata*

Currently: graduate student at U-Miami

23) **Alec Moore** (BS EEOB, minor SES, 2017, Research Distinction)

Thesis: *Variability in Hawaiian coral across naturally occurring gradients in temperature, pCO<sub>2</sub>,*



*and flow.*

Awards: SURE Scholar, URO Mayers Summer Research Scholar, Grottoli Undergrad Hoover Foundation Internship, Ohio EPA Scholarship, OSU Sigma Xi, Arts and Sciences Undergraduate Research Scholarship, winner of the Denmen Undergraduate Research Forum (3<sup>rd</sup> place) and the Natural & Mathematical Sciences Undergrad Research Forum

- 24) **Annce Kadri** (BS Environmental Science, 2016)  
 Thesis: *Recovery of coral biomass following bleaching under ocean acidification conditions*  
 Awards: OSU Research Scholars Award, SURE scholar  
 Currently: dental school student
- 25) **Casey Saup** (BS Earth Science, 2015)  
 Thesis: *Physiological and isotopic responses of Stylophora pistillata to future coastal ocean conditions*  
 Awards: NMS Undergraduate Research winner, -Denman Undergraduate Research honorable mention, SURE scholar  
 Currently: PhD student at OSU
- 26) **Micheal McBride** (BS Biology, 2014)  
 Thesis: *Effect of Repeat Bleaching Stress on the Stable Isotopes of Porites astreoides Corals*  
 Currently: Ohio University Heritage College of Osteopathic Medicine
- 27) **Tyler Liston** (BS Earth Science, 2014)  
 Thesis: *Interactive Effects of Temperature, Nutrients, and Ocean Acidification on Coral Biomass*  
 Awards: NMS Undergraduate Research Forum winner
- 28) **Colin Gearing** (BS Earth Science, 2013)  
 Thesis: *Particulate organic fluxes in Acropora millepora and Turbinaria reniformis at elevated temperature and pCO<sub>2</sub>*
- 29) **Sarah Starkey** (BS Geology, 2012)  
 Thesis: *Sources of carbon to the skeleton of the mesophotic coral Leptoseris hawaiiensis*  
 Awards: SURE scholar
- 30) **Maximillian Ringwald** (BS Geology, 2012)  
 Thesis: *Denaturing Gradient Gel Electrophoresis Analysis of Microbial Community Variation in Bleached and Non-bleached Montastraea faveolata*  
 Awards: SURE Scholar
- 31) **Dana Borg** (Gava) (BS Geology, Honors, 2011)  
 Thesis: *Paleoceanography of sclerosponges from elemental signatures*  
 Awards: SURE Scholar, ASLO undergraduate research poster winner
- 32) **Justin Baumann** (BS Zoology/ BA Geology, 2011)  
 Thesis: *The effects of single and repeat bleaching on photosynthesis, respiration, and feeding in three species of Caribbean coral*  
 Awards: SURE Scholar, NMS Undergraduate Research Forum winner  
 Currently: postdoc at UNC-Chapel Hill
- 33) **Teresa Huey** (Sanders) (BS SENR, 2011)  
 Thesis: *Effect of Land Use on the Age and Isotopic Composition of Dissolved and Particulate Carbon in Headwater Streams*

Awards: SURE Scholar

Currently: Nurse practitioner

34) **Chris Paver** (BS Earth Science, 2007)

Thesis: *Temporal and Spatial Natural Variability of the  $\delta^{13}\text{C}$  of Dissolved Inorganic Carbon in Seawater*

Currently: employed at NOAA

35) **James E. Palardy** (BA Biology, 2004)

Thesis: *The Effect of Morphology, Polyp Size, Depth and Temperature on Feeding in Three Species of Panamanian Corals*. Published as Palardy et al. (2005)

Currently: program officer at the Pew Charitable Trust

36) **Lillian Bloch** (BA 2004)

Thesis: *Developing a Method for Black Carbon Extraction from Coral and Application to an Australian Coral Core*.

37) **Christopher Malachowski** (BA 2004)

Thesis: *Effects of River Discharge on Coral Reefs in Puerto Rico and the Relationship to Land Use/Land Cover*.

### **Postdocs**

1) **Ann Marie Hulver** (2024 - )

Project: Feeding nursery corals with UZELA

2) **Leila Chapron** (2020- 2021)

Project: Biological and oceanographic processes impacting the persistence of the threatened *Acropora palmata* coral in Dry Tortugas National Park (CESU-USGS funded project to Grottoli)

Awards: Coral Bleaching RCN Early Career Training Award

Currently: Research Engineer at Plastic@Sea

3) **Stephen Levas** (2012-2013)

Project: *Effect of ocean acidification and warming on corals* (NSF-funded project of Grottoli)

Currently: Associate Professor (tenured) University of Wisconsin – Whitewater

4) **Yasuaki Tanaka** (2012-2013)

Project: *The allocation of nitrate-derived N to the zooxanthellae, host tissue, and carbonate skeleton of *Montipora digitata* and *Porites cylindrica*, and subsequent changes in the  $\delta^{13}\text{C}$  of each fraction.*

Awards: Japan Society Research Fellowships for Young Scientist

Currently: Assistant Professor at University Brunei Darussalam

5) **Branwen Williams** (2009)

Project: *Paleoceanography of the Pacific Warm Pool*

Currently: Associate Professor (tenured) at Claremont McKenna College

6) **Adam D. Hughes** (2006-2008)

Project: *Acquisition, Allocation, and Utilization of Carbon in Bleached and Recovering Corals* (NSF-funded project, Grottoli lead PI)

Currently: Senior Lecturer, The Scottish Association for Marine Science Dunstaffnage Marine Laboratory

### **Visiting Scientist**

- 1) **Marji Puotinen** (2012 - 2013), University of Wollagong  
Project: Effect of hurricane-produced cool wakes on coral reefs

### **Faculty Mentees**

- 1) **Melisa Diaz**, Assistant Professor in SES (2024 – present)
- 2) **Jennifer Hellman**, Assistant Professor in EEOB (2024 – present)
- 3) **Elizabeth Griffith**, Associate Professor in SES (2017 – 2024)
- 4) **Audrey Sawyer**, Professor in SES (2014 – 2021)
- 5) **Michael Wilkins**, Assistant Professor in SES (2013 – 2018)

### **STUDENT COMMITTEE MEMBER (in addition to Major students above)**

- 1) **Megan O'Quin** (MS in progress, Ohio State University) *Physiology and energetics of resilient coral-dinoflagellate communities*
- 2) **Elise Keister** (PhD 2023, U Alabama) *Physiology and energetics of resilient coral-dinoflagellate communities*
- 3) **Alexa Regnier** (MS 2023, Ohio State University) *Impact of the Miocene Carbonate Crash (13-8 Ma) on Bulk Carbonate  $\delta^{44/40}\text{Ca}$  in the Eastern Equatorial Pacific*
- 4) **Chloe Carbonne** (PhD 2022, Sorbonne University) *Rôle of environmental variability on the response of Mediterranean corals to global change*
- 5) **Nia Simone Walker** (PhD 2022, Stanford University, Hopkins Marine Lab) *Linking heat stress resistance and recovery in reef-building corals*
- 6) **Abraham Abellana** (BA Biomedical Art 2020, Cleveland Institute of Art)
- 7) **Samantha Carter** (PhD 2020, Ohio State University) *Improving our understanding of the marine barium cycle and constructing a new archive of erosion and sediment transport*
- 8) **Amber Bellamy** (PhD 2016, Ohio State University) *Contributions of allochthonous and aged organic matter to the diet and nutrition of macroinvertebrates*
- 9) **Donaldi Permana** (PhD 2015, Ohio State University) *Reconstructing History of Temperature and Net Accumulation based on Papua Ice-Cores and Its Implication on Climate Variability over Indonesia*
- 10) **Alvaro Fernandez** (PhD 2015, Tulane University) *Isotopic proxies of continental and oceanic climate* (currently postdoc in Switzerland)
- 11) **Karl Philippoff** (MS 2014, Ohio State University) *A climate history recovered from the Zangser Glacier, west-central Tibetan Plateau.*
- 12) **Jesse Filburn** (PhD 2013, Ohio State University) *An ecological approach to feed management in fish rearing ponds.*
- 13) **Deborah Leslie** (PhD student 2011-2012, Ohio State University) *Applying Stable Isotopes,  $\delta^{11}\text{B}$ ,  $\delta^{18}\text{O}$ , and  $\delta\text{D}$ , in Geochemical and Hydrological Investigations*
- 14) **Kathryn Lang** (BS 2012 senior thesis, Ohio State University) *Hypoxia as a mediator of food web interactions and energy flow in reservoir ecosystems.*
- 15) **Donaldi Permana** (MS 2011, Ohio State University) *Reconstructing History of Temperature and Net Accumulation based on Papua Ice-Cores and Its Implication on Climate Variability over Indonesia*
- 16) **Annette Trierweiler** (MS 2010, Ohio State University) *Interaction of Landslides and Land Use Changes on Fluvial Carbon Transport*
- 17) **Henry Wu** (PhD 2010 at SUNY-Albany) *Assessing replicated coral trace element (Sr/Ca and Mg/Ca) variability and skeletal growth records from the tropical Pacific*

- 18) **Natalie Kehrwald** (PhD 2009, Ohio State University) *Low-latitude ice cores and freshwater availability.*
- 19) **Seth Young** (PhD 2007, Ohio State University) *A chemostratigraphic investigation of the late Ordovician greenhouse to icehouse transition: oceanographic, climatic, and tectonic implications.*
- 20) **Suzanna Richter** (PhD 2006, University of Pennsylvania) *Continental-Scale Patterns in Wood Cellulose  $\delta^{18}O$ : Implications for Paleoclimate Reconstruction*

### WORK-STUDY, INTERNSHIP, and VOLUNTEER STUDENTS

- |   |  |
|---|--|
| 1) Carlos Juarez (1999 – 2000)                          | 2) James Palardy (2001 – 2004)           |
| 3) Lillian Bloch (2002 - 2003)                          | 4) Lauren Tang (2002 - 2003)             |
| 5) Shayna Higa (2002 - 2003)                            | 6) Leigh Seeleman (2003 – 2004)          |
| 7) Emily Young (2003)                                   | 8) Christopher Malachowski (2003 – 2004) |
| 9) Haley Wolfgruber (2004)                              | 10) Lindsey Swiacki (2004 – 2005)        |
| 11) Chris Paver (2005 – 2007)                           | 12) Patrick Bills (2007)                 |
| 13) Rachel Michelli (2007)                              | 14) Zachary Rosenbloom (2007)            |
| 15) Christine Andrews (2007)                            | 16) Louis Boucher (2007)                 |
| 17) Frances Lugo (2007-2008)                            | 18) Scott Himes (2007 - 2008)            |
| 19) Brad Hull (2007 - 2008)                             | 20) Pat Burns (2007-2008)                |
| 21) Lei-Wei Hung (2008-2009)                            | 22) Julie Ditkof (2009)                  |
| 23) Jane Marino (2009-2010)                             | 24) Lindy Rauchenstein (2009-2010)       |
| 25) Shaun Bartels (2010)                                | 26) Teresa Huey (2008 - 2011)            |
| 27) Justin Bauman (2009- 2011)                          | 28) Mikelis Berzins (2011)               |
| 29) Mohammed Munster (2011)                             | 30) Mark Ferrito (2010 – 2011)           |
| 31) Maximillian Ringwald (2011 – 2012)                  | 32) Chrissy Zerda (2011 – 2012)          |
| 33) Alexander Singer (high school intern) (2011 – 2012) | 34) Jordan Scheuerman (SURE - 2012)      |
| 35) Elizabeth Zebrowski (2011 – 2012)                   | 36) Megan Shortridge (2012 – 2013)       |
| 37) Michael McBride (2012 – 2014)                       | 38) Samantha Blackhurst (2012 – 2014)    |
| 39) Tyler Liston (2013 – 2014)                          | 40) Colin Gearing (2013 – 2014)          |
| 41) Megan Dudte (2014)                                  | 42) Spencer Palombit (2014)              |
| 43) Mallore Hagerty (2014 - 2015)                       | 44) Casey Saup (2013 – 2015)             |
| 45) Annce Kadri (2014 – 2016)                           | 46) Maddie Rokosh (2015)                 |
| 47) Andrew Huber (2016)                                 | 48) Katiri Snyder (2015 – 2016)          |
| 49) Alec Moore (2015 – 2017)                            | 50) Emily Sambuco (2015 – 2017)          |
| 51) Mathias Wagner (2016 – 2017)                        | 52) Francesca Hawkes (2017)              |
| 53) Lydia Mullins (2017)                                | 54) Chloe Criswell (2016 – 2018)         |
| 55) John Armstrong (2016 – 2018)                        | 56) Katherine Giesy (2016 – 2018)        |
| 57) Jordan Walters (STEP 2017 – 2018)                   | 58) Colin Mortemore (STEP 2017 – 2018)   |
| 59) Jackie Altschuler (STEP 2017 – 2018)                | 60) Margaret Otto (STEP 2016 – 2019)     |
| 61) Sarah Solomon (2015 – 2018)                         | 62) Alexandra Smith (SURE 2017 – 2019)   |
| 63) Andrea Wertz (2017 – 2019)                          | 64) Ester Kang (2018 - 2019)             |
| 65) Adrianna Arribas (STEP 2018 – 2020)                 | 66) Kristen Rockwell (URAP 2018 – 2020)  |
| 67) Claire Juracka (Honors 2018 – 2020)                 | 68) Emma Kline (2018 – 2019)             |
| 69) Hailey Hayes (2017 – 2020)                          | 70) Monica Locatis (STEP 2018 – 2019)    |
| 71) Elton Nguyen (2018 – 2020)                          | 72) Barbara Nainiger (2019)              |
| 73) Luke Baily (2019)                                   | 74) Ysabela Noggle (2019- 2020)          |
| 75) Sophia Stevenson (Metro HS) (2019-2020)             | 76) Marissa Moran (2019-2020)            |
| 77) Samantha Lannon (2019)                              | 78) Elliot O'flynn (2019)                |
| 79) Kaleb Ryan (2019)                                   | 80) Shannon Dixon (2019 - 2022)          |
| 81) Corbin Lanker (2020 – 2022)                         | 83) Sam Nortz (2021 – 2022)              |

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|---------------------------------------|---|
| 84) Zoe Watson (2021 – 2023)          | 85) Lain Weaver (2022 – 2023)                 |
| 86) Carly Schafer (2023)              | 87) Austin Krupar (2022 – 2023)               |
| 88) Jacob Welter (2022 – 2024)        | 89) Tony Caputo (2022 – present)              |
| 91) Mary Raker (2023 – present)       | 92) Emma van Buren (2023 – present)           |
| 93) Caroline McCoy (2023 – present)   | 94) Olivia Reed (2023 – present)              |
| 96) Marissa Johnston (2023 – present) | 97) Addie Flowers (2023 – present)            |
| 98) Abby Smith (2024 - present)       | 99) Leeann Beavers (Metro HS) (starting SP25) |
| 100) Lily Stark (2025 – present)      | 101)  |

**TOTAL NUMBER OF STUDENTS ADVISED**

**Graduate Student PhD Dissertation Major Advisor: 12**

**Graduate Student Masters Major Advisor: 5**

**Graduate Student Committee Member (not as Major Advisor): 20**

**Total graduate students advised: 37**

**Undergraduate senior thesis students advised: 37**

**Undergraduate Student Committee Member (not as Major Advisor): 2**

**Total undergraduate students advised: 39**

**Total undergraduate work-study, interns, and volunteers: 100**

**Total Postdocs advised: 6**

**Total Faculty Mentees at OSU: 5**