

## **CHRISTOPHER T. CONWELL**

CURRICULUM VITAE

PhD candidate, Graduation 2022

School of Earth Sciences, Ohio State University

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### **EDUCATION**

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2017–present PhD student, School of Earth Sciences, The Ohio State University  
Advisor: Matthew Saltzman  
Expected graduation December 2022

2012–2016 B.S. Geology, Mathematics Minor, Distinction in Major, Temple University,  
Philadelphia PA

### **PUBLICATIONS**

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2021 Conwell, C.T., Saltzman, M.R., Edwards, C.T., Griffith, E.M., and Adiatma, Y.D., in review, Coupling of mafic weathering and climate change during the early Paleozoic.

### **GRANTS**

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2021 Evolving Earth Foundation, Graduate Student Grant (\$3,000)

2020 International Association of Geochemistry, Graduate Student Grant (\$2,160)

2019 American Association of Petroleum Geologists, Michael S. Johnson Named Grant (\$2,000)

### **INVITED DEPARTMENT SEMINAR TALKS**

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2019 “Island arc accretion as a driver of Ordovician Climate”, Chengdu Institute of Technology, Department of Sedimentary Geology, Sichuan, China, April 2019 (delivered in-person). Invited by Dr. Keke Huang.

### **CONFERENCE ACTIVITY**

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#### **Co-chaired sessions**

2020 The Ordovician Earth: New Insights to Environmental and Biotic Responses in the Fossil and Rock Record (oral and poster), GSA 2020 Meeting, Montreal, CA (hosted virtually).

2019 The Ordovician Earth: Integrated Perspectives on the Fossil and Rock Records (oral and poster), GSA 2019 Meeting, Phoenix, AZ.

## Papers presented

- 2021 **Conwell, C.T.**, Saltzman, M.R., Edwards, C.T., Griffith, E.M., Adiatma, Y.D., 2021. Paired Middle–Late Ordovician continental weathering ( $^{87}\text{Sr}/^{86}\text{Sr}$  and  $\epsilon_{\text{Nd}(t)}$ ) and paleotemperature ( $\delta^{18}\text{O}$ ) proxy measurements link enhanced mafic weathering to global cooling. GSA 2021 meeting, Portland, Oregon, Vol. 53, No. 6, paper 8-4. (Oral presentation)
- 2020 **Conwell, C.T.**, Saltzman, M.R., Edwards, C.T., Griffith, E.M., 2020. Global cooling linked to basaltic weathering during the Ordovician greenhouse–icehouse transition. GSA 2020 meeting, Montreal, Canada (virtual conference), Vol. 52, No. 6, paper 179-6. (Recorded oral presentation)
- 2019 **Conwell, C.T.**, Saltzman, M.R., Griffith, E.M., Edwards, C.T., 2019. Did Taconic orogenesis enhance mafic weathering rates in the Middle–Late Ordovician? A test using seawater strontium and neodymium isotopes. GSA 2019 Meeting, Phoenix, AZ, Vol. 51, No. 5, paper 169-3. (Oral presentation)
- 2018 Griffith, E.M., Aduddell, R., Kim, J.E., **Conwell, C.T.**, Jorgensen, T., Griffith, W.A., 2018. Creating new pathways to geosciences and relieving bottlenecks in mathematics by teaching College Algebra in a geoscience context. AGU 2018 Meeting, Washington, D.C., Abstract no. ED13C-0772.
- Conwell, C.T.**, Saltzman, M.R., Griffith, E.M., 2018. Taconic weathering and Ordovician cooling: Testing the link using paired Sr and Nd isotopes, Antelope Valley, Central NV. GSA 2018 Meeting, Indianapolis, IN, Vol. 50, No. 6, paper 11–3. (Oral presentation)
- Conwell, C.T.**, Saltzman, M.R., Edwards, C.T., 2018. Continental weathering and the Ordovician greenhouse-icehouse transition: an assessment using paired strontium and neodymium isotope stratigraphy. International Geoscience Programme Project (IGCP) 653, 3<sup>rd</sup> Annual Meeting, Athens, OH. (Oral presentation)
- Conwell, C.T.**, Saltzman, M.R., Edwards, C.T., 2018. Assessing critical drivers of the Ordovician greenhouse-icehouse transition with paired strontium and neodymium isotope stratigraphy. GSA Northeastern Section Meeting, Burlington, VT, Vol. 50, No. 2, paper 4-8. (Oral presentation)
- 2016 **Conwell, C.T.**, Tumarkin-Deratzian, A., Terry, D.O., D.E. Grandstaff, 2016. From bone to stone: The influence of depositional environments on the fossilization of vertebrate bone from the Paleogene White River Group, Badlands National Park, South Dakota. GSA Northeastern Section Meeting, Albany, NY, Vol. 48, No. 2, paper 61-13. (Poster presentation; received GSA Outstanding Undergraduate Student Poster award)
- 2015 **Conwell, C.T.**, Cerkez, E.B., Bynevich, I.V., D.E. Grandstaff, 2015. Origin of anomalous magnetic susceptibility and coloration in relict Atlantic Oyster shells:

Geochemical insights. GSA Baltimore, MD Vol. 47, No. 7, p. 366. (Poster presentation; received SEPM Best Poster award)

**Conwell, C.T.**, Grandstaff, D.E., D.O. Terry, 2015. Diagenetic history of terrestrial fossil bone from the Paleogene White River Group, Badlands National Park, South Dakota. GSA Baltimore, MD Vol. 47, No. 7, p. 828. (Oral presentation)

**Conwell, C.T.**, Buynevich, I.V., D.E. Grandstaff, 2015. Surficial magnetic susceptibility trends in variably colored relict *Crassostrea virginica* shells, New Jersey coast. GSA Northeastern Section Meeting, Bretton Woods, NH, Vol. 47, p.132. (Poster presentation; received GSA Outstanding Undergraduate Student Poster award)

Thornburg, J.D., Oest, C., **Conwell, C.T.**, Khaisman, P, C. Richardson, 2015. Late Mississippian (Chesterian) paleoclimate inferred from paleosol niobium concentrations, Mauch Chunk Formation, East-Central Pennsylvania. GSA Northeastern Section Meeting, Bretton Woods, NH, Vol. 47, p.52.

## GRADUATE ASSOCIATESHIPS

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- 2021–present Graduate Research Associate, School of Earth Sciences, Ohio State University
- 2019–2021 Graduate Teaching Associate, School of Earth Sciences, Ohio State University, Introductory Geology Lab (EARTHSC 1121); Climate Change (EARTHSC 1911); Historical Geology Lab (EARTHSC 2122)
- 2018–2019 Head Teaching Associate, School of Earth Sciences, Ohio State University, Introductory Geology Lab (EARTHSC 1121)
- 2018 Graduate Research Assistant, School of Earth Sciences, Ohio State University, NSF Award #1700896 “GEOPATHS-IMPACT: Integrating Geoscience to Engage Majors with Mathematics: iGEM<sup>2</sup>” (PI W.A. and E.M. Griffith)
- 2017–2018 Graduate Teaching Associate, School of Earth Sciences, Ohio State University, Introductory Geology Lab (EARTHSC 1121)

## SCIENCE OUTREACH AND MEDIA

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- 2021 Designed written and visual content for a [virtual lab tour](#) of chemostratigraphy research facilities in the School of Earth Sciences at Ohio State.
- 2020 Featured guest on [The Geology Flannelcast](#)—a podcast about geology.

2019 Ran two geology lessons with [Metro Rocks!](#)—an afterschool program partnership with the School of Earth Sciences at Ohio State and Metro Middle School.

Featured in a #MeetTheScientistMonday [research highlight](#) by the School of Earth Sciences at Ohio State.

2018 Designed Earth Science-based problem sets and [video lecture material](#) for a College Algebra class at University of Texas, Arlington as part of NSF Award #1700896 “GEOPATHS-IMPACT: Integrating Geoscience to Engage Majors with Mathematics: iGEM<sup>2</sup>”

## **PROFESSIONAL SERVICE**

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2018–2019 Graduate student representative for the Earth History Division of the School of Earth Sciences at Ohio State