

Curriculum Vitae

Serena Tucci

Yale University
Department of Anthropology
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EDUCATION

- 2016 Ph.D. in Evolutionary and Environmental Biology, with highest honors
 University of Ferrara, Italy
 Thesis Title: Lost worlds: tales of archaic hominin admixture in Southeast
 Asia and Oceania
 Supervisors: Guido Barbujani
 Co-supervisor: Richard Edward Green (University of California at Santa Cruz, CA)
- 2009 M.Sc. in Biodiversity and Evolution, with highest honors
 University of Bologna, Italy
 Major: Molecular Anthropology
- 2008 B.S. in Biological Sciences, with highest honors
 University of Bologna, Italy
 Major: Biodiversity and Evolution
 Minor: Molecular Anthropology

PROFESSIONAL APPOINTMENTS

- July 2020 Assistant Professor
 Department of Anthropology, Yale University
 New Haven CT
- 2017–2020 Postdoctoral Research Associate
 Lewis-Sigler Institute for Integrative Genomics
 Department of Ecology and Evolutionary Biology
 Princeton University, NJ
 Advisor: Joshua Akey
- 2016 – 2017 Postdoctoral Fellow
 Department of Genome Sciences, University of Washington, Seattle WA
 Advisor: Joshua Akey
- 2015 – 2016 Visiting Researcher

Department of Genomes Sciences. University of Washington, Seattle WA
Advisor: Joshua Akey

- 2013 – 2014 Visiting Researcher
Universitat Pompeu Fabra, Barcelona, Spain
Advisor: Tomas Marques Bonet
- 2011 – 2012 Research Associate
Weill Cornell Medical College, New York NY
Institute for Computational Biomedicine, Department of Physiology and Biophysics

PUBLICATIONS

Academic publications

- 2020 Amorim E. G., **Tucci S.** Let's stream! A beginners' guide to live-streaming scientific conferences, *Evolutionary Anthropology*. *Evolutionary Anthropology*. doi:10.1002/evan.21830
- 2019 **Tucci S.**, Akey JM. The long walk to African genomics. *Genome Biology*; 2019;19–21.
- 2018 **Tucci, S.**, Vohr, S. H., McCoy, R. C., Vernot, B., Robinson, M., Barbieri, C., Fu, W., Purnomo, G. A., Sudoyo, H., Barbujani, G., Visscher, P. M., Akey, J. M., and Green, R. E. (2018), Evolutionary history and adaptation of a human pygmy population of Flores Island, Indonesia. *Science*, 361(6401): 511–516. doi: 10.1126/science.aar8486
- 2018 Browning, S. R., Browning, B. L., Zhou, Y., **Tucci, S.**, and Akey, J. M. Analysis of Human Sequence Data Reveal Two Pulses of Archaic Denisovan Admixture Two waves of Denisovan admixture detected in East Asians. *Cell*. 173, 1–9 (2018).
- 2016 **Tucci, S.** and Akey, J. M. (2016). Population genetics: A map of human wanderlust. *Nature*. doi:10.1038/nature19472
- 2016 Vernot, B., **Tucci, S.**, Kelso, J., Schraiber, J. G., Wolf, A. B., Gittelman, R. M., Dannemann, M., Grote, S., McCoy, R. C., Norton, H., Scheinfeldt, L. B., Merriwether, D. A., Koki, G., Friedlaender, J. S., Wakefield, J., Paabo, S., and Akey, J. M. (2016). Excavating Neandertal and Denisovan DNA from the genomes of Melanesian individuals. *Science*, 352(6282):235–239.
- 2016 Lobon*, I., **Tucci*, S.**, de Manuel, M., Ghirotto, S., Benazzo, A., Prado-Martinez, J., ... Marques-Bonet, T. (2016). Demographic History of the Genus Pan Inferred from Whole Mitochondrial Genome Reconstructions. *Genome Biology and Evolution*, 8, 2020–2030. doi:10.1093/gbe/evw124 *co-first author
- 2015 Boattini, A., Sarno, S., Pedrini, P., Medoro, C., Carta M., **Tucci S.**, Ferri G., Alù M., Luiselli D., and Pettener D. (2015) Traces of Medieval migrations in a social

stratified population from Northern Italy. Evidence from uniparental markers and deep-rooted pedigrees. *Heredity* 114, 155–162;doi:10.1038/hdy.2014.77

- 2012 Chen, H. J., Edwards, R., **Tucci, S.**, Bu, P., Milsom, J., Lee, S., ... Lipkin, S. (2012). Chemokine 25–induced signaling suppresses colon cancer invasion and metastasis. *Journal of Clinical Investigation*, 122(9), 3184–3196. doi.org/10.1172/JCI62110

Academic publications in preparation

Tucci S., Akey JM. The contribution of Neanderthal DNA to modern human traits. *Annual Review of Genetics*. In preparation

Tucci S., Parsons L., Akey J. M., The Genome Browser of Archaic Hominin Introgression”. In preparation

GRANTS AND AWARDS

- 2015 IUSS Ferrara 1391 Scholarship Year 2015
Young Researcher Fellowship, University of Ferrara, Italy
- 2013 Genetics Society UK, Heredity Fieldwork Grant
Lewis and Clark Fellowship for Exploration and Field Research, American Philosophical Society, Philadelphia, PA
Honorable mention from the SDE-GWIS Women in Science
Young Researcher Fellowship, University of Ferrara, Italy
IUSS Ferrara 1391 Scholarship Year 2013
Travel award. Course “Programming for Evolutionary Biology” University of Leipzig Germany
- 2011 DAAD - Deutscher Akademischer Austausch Dienst scholarship for conducting research in Germany (declined)
Travel award, University of Montreal, Canada Montreal Spring School of Population Genomics and Genetic Epidemiology
- 2003 Socrates-Erasmus Program Full Scholarship, University of Bologna, Italy
One-Year Visiting Student at Universitat Autònoma de Barcelona, Spain

CONFERENCE PARTICIPATION

Oral presentations

- 2019 11th Conference of the International Society for Applied Biological Sciences
ISABS, Split, Croatia
- 2018 Annual Meeting of the Society for Molecular Biology & Evolution, Yokohama,
Japan
- 2018 87th Annual Meeting of the American Association of Physical
Anthropologists, Austin, TX

Poster Presentations

- 2018 SMBE Satellite Meeting, Modern Methods for Ancient DNA. Providence RI
- 2017 Annual Meeting of the Society for Molecular Biology & Evolution,
Austin, TX
- 2017 International Society for Applied Biological Sciences, Dubrovnik, Croatia

INVITED TALKS

- 2019 Johannes Gutenberg University of Mainz, Germany (December 17)
- 2019 University of Tübingen, Germany. Fifth annual symposium of the DFG Center for
Advanced Studies (December 12-15)
- 2019 George Washington University, DC (November 22)
- 2019 University of Bern, Switzerland (June 11)
- 2018 University of Pennsylvania, Philadelphia. (June 26)
- 2018 Mini-Symposium New Methods and Discoveries in Human Archaic Admixture
University of Zurich, Switzerland (December 18)

TEACHING EXPERIENCE

- 2018 Instructor, Princeton University (Fall 2018)
Graduate Course QCB455: Introduction to Genomics and Computational Molecular
Biology.
- 2016 Graduate Thesis Co-Advisor, Luca Betti. University of Ferrara, Italy
- 2015 Undergraduate Thesis Co-Advisor, Carlo De Nart. University of Ferrara, Italy
- 2014 Undergraduate Thesis Co-Advisor, Stefania Rubbini. University of Ferrara, Italy
- 2014 – 2015 Scientific Editor. Edizioni Centro Studi Erickson Publishing, Italy. Developed
curriculum for the publication of three science textbooks conceived for children
(from third to fifth grade) with learning disabilities.
- 2013 Guest Lecturer in Population Genetics. University of Ferrara, Italy

RESEARCH EXPERIENCE

- 2010 – 2011 Intern, Research Group on Comparative Population Linguistics
Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany
- 2008 – 2009 Intern, Graduate Thesis Preparation, Molecular Anthropology Laboratory

University of Bologna, Italy
2007 – 2008 Intern, Undergraduate Thesis Preparation, Molecular Anthropology Laboratory
University of Bologna, Italy

UNIVERSITY AND COMMUNITY SERVICE

2019 Symposium Organizer. “Deciphering the Denisovans”. 88th Annual Meeting of the American Association of Physical Anthropologists, March 2019, Cleveland, OH
2018-present Reviewer for *Science*, *Leakey Foundation*, *Current Biology*
2018-present Education Outreach Director of *I love science*, Brooklyn, NY
2014 Education Outreach Volunteer. Stage for high-school students. University of Ferrara, Italy
2014 – 2015 International Students Tutor, University of Ferrara, Italy
2014 Invited Speaker. Café Scientifique! organized by World Wildlife Fund, Bologna, Italy
2013 Invited Speaker. Café Scientifique! organized by World Wildlife Fund, Bologna, Italy
2008 – 2009 Peer Tutor, Graduate Program in Biodiversity and Evolution
University of Bologna, Italy

ADVANCED COURSES ATTENDED

2014 19th Summer Institute in Statistical Genetics, July 6-23, University of Washington, Seattle WA
2013 Research Summer School 2013, Software and Statistical Methods for Population Genetics. June 17-21, Aussois, France
2013 Programming for Evolutionary Biology, April 3-19, University of Leipzig, Germany
2011 Montreal Spring School of Population Genomics and Genetic Epidemiology
May 30- June 3. University of Montreal, Québec, Canada
2011 European Course on Comparative Genomics. January 17-28. Ecole Normale Supérieure de Lyon, France
2010 PhD course in Human population genetic analysis 2010. August 16-20.
Department of Biology, University of Copenhagen, Denmark
2010 XVII Summer School on Statistical Inference in Biology and Human Sciences.
June 27- July 9, Polo Universitario di Asti Studi Superiori, Italy
2010 23rd Course in Medical Genetics. May 23-28. EuroMediterranean University Center, Bologna, Italy
2010 Course in Genomic and Cultural Evolution of Humans. May 17-19,
EuroMediterranean University Center, Bologna, Italy

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