Daniel R. Green: Curriculum Vitae

Doctoral Candidate
Human Evolutionary Biology
Faculty of Arts and Sciences
Harvard University

11 Divinity Avenue
Cambridge MA 02138
drgreen@fas.harvard.edu
1 (248) 250-4495

Education

Ph.D. expected 2016, Human Evolutionary Biology, Harvard University
M.A. 2012, Human Evolutionary Biology, Harvard University

B.S. 2008, Anthropology–Zoology, History, French and Francophone Studies
Minor in Biology, University of Michigan in Ann Arbor

Publications

Green DR, Colman AS, Tafforeau P, Bidlack F, Smith TM. A tool for estimating seasonal hydrology from $\delta^{18}O$ in large herbivore teeth. *In preparation.*

Green DR, Colman AS, Olack G. Large herbivore phosphate-water $\delta^{18}O$ fractionation through direct blood and enamel measurements. *In preparation.*

Green DR, Colman AS, Green GM, Tafforeau P, Bidlack F, Smith TM. High-resolution synchrotron and stable isotope analyses reveal tooth mineralization patterns for climate reconstruction. *In Revision, PNAS*.

Cho S, Huang ZY, **Green DR,** Smith DR, Zhang J (2006) Balancing selection generates trans-species polymorphisms at the complementary sex-determination locus of honey bees. *Genome Research* 16:1366-1375

Posters and presentations

Green DR, Colman AS, Green GM, Tafforeau P, Bidlack F, Smith TM (2015) Seasonal climate reconstruction with isotopes and synchrotron X-rays. *Cleveland Museum of Natural History Paleoecology Symposium*. Cleveland, OH (poster)

Green DR, Green GM, Colman AS, Tafforeau P, Smith TM (2015) Synchrotron x-ray imaging and MCMC support seasonal climate reconstruction. *American Association of Physical Anthropologists annual meeting*, St. Louis, MO (poster)

Green DR, Green GM, Tafforeau P, Weaver J, Colman AS, Smith TM (2014) Synchrotron imaging helps reconstruct mineralization patterns, and ancient climate. *Gordon Conference on Biomineralization*, New London, NH (poster)

Green DR, Green GM, Smith TM, Tafforeau P (2013) Microtomographic assessment of mineralization patterns to inform isotope paleoenvironmental reconstruction. *American Association of Physical Anthropologists annual meeting*, Knoxville, TN (poster)

Green DR, Weaver J, Smith TM (2012) Quantitative Density with micro-Computed tomography: mapping mineralization. *Society of Integrative and Comparative*

Biology: Division of Vertebrate Morphology annual meeting. Amherst, MA (presentation)

Green DR, Braun J, Morgan M, Pilbeam D, Tuross N, Smith TM (2010) Integrating carbon and oxygen isotope signals: seasonality in the Siwaliks, Pakistan. *Society of Integrative and Comparative Biology: Division of Vertebrate Morphology annual meeting.* Cambridge, MA (presentation)

Grants

"Plio-Pleistocene Seasonal Precipitation through isotopes in Bovid molars, West Turkana." *Leakey Foundation General Grant*, $12,000 (2014)

"Experimental Reconstruction of Seasonal Rainfall for Paleoclimate Research." *Wenner-Gren Foundation Dissertation Grant*, $18,810 (2014)

NSF Graduate Research Fellowship Program, $90,000 (2011-2014)

"Doctoral Dissertation Improvement Grant: Experimental Determination of Tooth Mineralization Patterns in Ungulates for Application to Paleoseasonality Reconstruction." *National Science Foundation Doctoral Dissertation Improvement Grant* #1247426, $19,855 (2012)

"Plio-Pleistocene Seasonal Precipitation through isotopes in Bovid molars, West Turkana." Harvard University *Committee on African Studies Summer Research Grant,* $5,000 (2012)

"Determination of Enamel Mineralization Pattern by Scans of Successive Developmental Stages With Application for Study of Paleoecology." *European Synchrotron Radiation Facility* project award EC1018, est. value $10,000/day (2012)

Research training programs

East Turkana Geological Field School, led by Thure Cerling and Frank Brown. (2011)

Stable Isotope Biogeochemistry and Ecology course, offered by the University of Utah's Stable Isotope Ratio Facility for Ecological Research (SIRFER). (2010)

Teaching

Harvard Eliot House Resident Tutor: biology, fellowships (2012-present)

Teaching Assistant: Sophomore Concentration Tutorial (2015)

Teaching Assistant: Human Evolutionary Anatomy (2012)

Harvard Bok Center Certificate of Distinction in Teaching (2012)

Teaching Assistant: Turkana Basin Institute Field School (2011)

Public outreach and mentorship

Mentored undergraduates in lab (2009-present)

Harvard Museum of Comparative Zoology Volunteer (2011-13)

Society of Biology Students Co-President, University of Michigan (2007-2008)

Additional skills

Python programming, Microsoft and Adobe software

References

Dr. Tanya Smith
Associate Professor
Department of Human Evolutionary Biology
Harvard University
phone: (617) 496 8259
email: tsmith@fas.harvard.edu

Dr. Albert Colman
Assistant Professor
Department of Geophysical Sciences
University of Chicago
phone: (773) 834-1278
email: asc25@uchicago.edu

Dr. David Pilbeam
Henry Ford II Professor of Human Evolution
Department of Human Evolutionary Biology
Harvard University
phone: (617) 495-4736
email: pilbeam@fas.harvard.edu

Dr. Daniel Lieberman
Edwin M. Lerner II Professor of Biological Sciences
Department of Human Evolutionary Biology
Harvard University
phone: (617) 495-5479
email: danlieb@fas.harvard.edu