

KRISTINA GUILD DOUGLASS

Department of Anthropology & Institutes of Energy and the Environment
The Pennsylvania State University
321 Carpenter Building | University Park, PA 16802 | 814.865.2937 | kdouglass@psu.edu

ACADEMIC APPOINTMENTS

2020-present	Joyce and Doug Sherwin Early Career Professor in the Rock Ethics Institute and Assistant Professor of Anthropology and African Studies, Penn State University
2017- present	Assistant Professor of Anthropology, Department of Anthropology and Institutes of Energy and the Environment, Penn State University
2017- present	Research Associate, NMNH, Smithsonian Institution
2016-2017	Adjunct Professor of Anthropology, Department of Sociology and Anthropology, George Mason University
2016-2017	Peter Buck Postdoctoral Fellow, NMNH, Smithsonian Institution

EDUCATION

DPhil 2016	Yale University, Department of Anthropology <i>An Archaeological Investigation of Settlement and Resource Exploitation Patterns in the Velondriake Marine Protected Area, Southwest Madagascar, ca. 900 BC to AD 1900.</i> Dissertation Committee: R. McIntosh (Chair), A. Underhill, W. Honeychurch and A. Richard
MPhil 2012	Yale University, Department of Anthropology
A.B. 2007	Dartmouth College, Department of Classics

RESEARCH INTERESTS

Human-environment interaction, Sub-Saharan Africa, Madagascar and the Indian Ocean, historical ecology, the Anthropocene, paleoclimate, landscape, zooarchaeology, extinctions, high-resolution imaging and materials characterization, radiocarbon, coastal and island archaeology, ethnogenesis, ethnoarchaeology, environmental justice, co-produced research

PUBLICATIONS

Douglass, K

[in press] “Amy ty lilin-draza’ay: Building archaeological practice on principles of community”. Submitted to the COVID-19 Forum, *African Archaeological Review*. DOI: 10.1007/s10437-020-09404-8

Douglass, K. and J. Cooper

2020 Archaeology, environmental justice and climate change on islands of the Caribbean and Southwestern Indian Ocean. *Proceedings of the National Academy of Sciences*. 117(15): 8254-8262.

Davis, D., DiNapoli, R. and **K. Douglass**

- [2020] “Integrating Point Process Models, evolutionary ecology and traditional knowledge improves landscape archaeology – a case from southwest Madagascar” *Geosciences*. 10(8): 287.
- Davis, D. and **K. Douglass**.
2020 Aerial and Spaceborne Remote Sensing in African Archaeology: A Review of Current Research and Potential Future Avenues. *African Archaeological Review*. 37(1): 9-24.
- Davis, D; V. Andriankaja, C. L. Tahirisoa, Z. M. Chrisostome, C. Colombe, F. Fenomanana, L. Hubertine, R. Justome, F. Lahiniriko, H. Léonce, G. Manahira, B. V. Pierre, R. Razafimagnefa, P. Soafiavy, V. Faralahy, V. Vavisoa, B. Manjakahery and **K. Douglass**
2020 Satellite-based remote sensing rapidly reveals extensive record of Holocene coastal settlement on Madagascar. *Journal of Archaeological Science*. 115(105097): 1-13.
- Douglass, K.**, Sean Hixon, Henry T. Wright, Laurie R. Godfrey, Brooke E. Crowley, Barthelemy Manjakahery, Tanambelo V. R. Rasolondrainy, Zoë Crossland, and Chantal Radimilahy.
2019 "A critical review of radiocarbon dates clarifies the human settlement of Madagascar." *Quaternary Science Reviews* 221 (105878):1-11.
- Douglass, K.**, Eréndira Quintana Morales, George Manahira, Felicia Fenomanana, Roger Samba, Francois Lahiniriko, Zafy Maharesy Chrisostome, Voahirana Vavisoa, Patricia Soafiavy, Ricky Justome, Harson Leonce, Laurence Hubertine, Briand Venance Pierre, Carnah Tahirisoa, Christoph Sakisy Colomb, Fleurita Soamampionona Lovanirina, Vanillah Andriankaja, and Rivo Robison.
2019 "Toward a just and inclusive environmental archaeology of southwest Madagascar." *Journal of Social Archaeology* 19(3), 307-332. doi: 10.1177/1469605319862072.
- Archaeoglobe Project [incl. **K. Douglass**]
2019 "Archaeological assessment reveals Earth’s early transformation through land use." *Science* 365 (6456):897-902. doi: 10.1126/science.aax1192.
- Swift, J., M. Bunce, J. Dortch, **K. Douglass**, T. Faith, J. F. Yates, J. Field, S. Haberle, E. Jacob, C. Johnson, E. Lindsey, E. Lorenzen, J. Louys, G. Miller, A. Mychajliw, P. Roberts, V. Slon, N. Villavicencio, M. Waters, F. Welker, R. Wood, and N. Boivin
2019 “Micro-Methods for Megafauna: Novel approaches to the study of Late Quaternary Extinctions and their contributions to conservation in the Anthropocene.” *BioScience*. 69(11), 877-887.
<https://doi.org/10.1093/biosci/biz105>
- Douglass, K.**, J. Walz, E. Quintana Morales, R. Marcus, G. Myers and J. Pollini
2019 “Historical Perspectives on Contemporary Human Environment Dynamics in Southeast Africa.” *Conservation Biology*, 33(2), 260-274.
<https://doi.org/10.1111/cobi.13244>

Douglass, K., A. Antonites, E. Quintana Morales, A. Grealy, M. Bunce, C. Gough and C. Bruwer
2018 “Multi-Analytical Approach to Zooarchaeological Assemblages Elucidates Late Holocene Coastal Lifeways in Southwest Madagascar.” *Quaternary International*. 471, 111-131. <https://doi.org/10.1016/j.quaint.2017.09.019>

Antonites, A. **K. Douglass**, V. Linseele
2018 “African Archaeozoology Today: Multi-Analytical Approaches to Human-Animal Interactions in the African Past.” *Quaternary International*. 471, 1-5. <https://doi.org/10.1016/j.quaint.2018.04.009>

Grealy, A., **K. Douglass**, J. Haile, C. Bruwer, C. Gough and M. Bunce
2016 “Tropical Ancient DNA from Bulk Archaeological Fish Bone Reveals The Subsistence Practices of an 18th Century Coastal Community in Southwest Madagascar.” *Journal of Archaeological Science*, 75: 82-88. <http://dx.doi.org/10.1016/j.jas.2016.10.001>

Douglass, K.
2016 “The Diversity of Late Holocene Shellfish Exploitation in Velondriake, Southwest Madagascar.” *The Journal of Island and Coastal Archaeology*, 12: 333-359. doi: 10.1080/15564894.2016.1216480

Douglass, K., and J. Zinke
2015 “Forging Ahead by Land and by Sea: Archaeology and Paleoclimate Reconstruction in Madagascar.” *African Archaeological Review*, 32(2): 267-299. doi: 10.1007/s10437-015-9188-5

Manuscripts in Review and in Preparation

Douglass, K and T. Rasolondrainy
[in review] “Social memory and niche construction in a hypervariable environment”. Submitted to the *American Journal of Human Biology*

Douglass, K. T. Feo, P. Bulathsinhala, T. Tighe, S. Whittaker, Z. Brand, H. James and T. Rick.
[in prep] “Modeling avian eggshell microstructures predicts ontogenetic age and reveals patterns of human-avifauna interaction.” For submission to the *Journal of Archaeological Science*

Grealy, A., G. Miller, M. Phillips, M. Fogel, D. Patalwala, P. Rigby, A. Buckley, **K. Douglass**, J. Haile, and M. Bunce
[Revising] “Molecular audit of fossil eggshell finds novel ootaxon of giant extinct bird.”

Crossland, Z; Radimilahy, C and **Douglass, K.**, eds.
[in prep] “The Malagasy World.” Book proposal under review by Routledge Worlds Series

Book Reviews

K. Douglass

- 2018** “Histoire et voyages des plantes cultivées à Madagascar avant le XVIe siècle.”
Beaujard, P. 2017. Karthala. *African Archaeological Review*, 35:2: 339-340
<https://doi.org/10.1007/s10437-018-9292-4>

GRANTS AND FELLOWSHIPS

Summary of funding obtained to-date:

\$169,070 in research grants
\$192,500 in pre-doctoral fellowships; **\$96,000** in post-doctoral fellowships
\$28,111 in training grants
\$5,293 in academic conference funds
\$7,300 for public outreach and social initiatives in Madagascar
Total Awarded: \$487,274

External Sources

- 2020 *Microsoft*
AI for Earth Grant: \$15,000
- 2017 *The Wenner Gren Foundation*
Post-PhD Research Grant (co-PI Dr. Bram Tucker): \$19,984
- 2017 *The Max Planck Institute for the Science of Human History*
Megafauna Extinctions Research Grant: \$11,000
- 2016- *The Smithsonian Institution, National Museum of Natural History*
2018 Peter Buck Postdoctoral Fellowship: \$48,000 (stipend) per year (2 years); \$1,000 research funds
- The Society for Africanist Archaeologists*
2016 Student Travel Award: \$805
- The Philanthropic Education Organization (PEO)*
2013 PEO Scholar Award Recipient: *The Morombe Archaeological Project*: \$15,000
- The Bead Society of Greater Washington*
2012 Museum curation, exhibit design and public outreach award: \$4,500
- The National Science Foundation*
2011 Graduate Research Fellowship, 2011-2014: \$30,000 (stipend) plus \$10,000 (tuition) per year (3 years)
- DACOR Bacon House Foundation*
2011 Dreyfus Memorial Scholarship: \$12,500

Internal Sources

- Penn State Center for Humanities and Information*
- 2019 Digital Humanities Seed Grant (over 3 years): *Vezo Ecological Knowledge Exchange*: \$25,000
- Penn State Africana Research Center*
- 2019 Research Grant: *Vezo Ecological Knowledge Exchange*: \$2,000
- Penn State Institute for Cyberscience*
- 2019 Seed Grant: *Machine Learning and the Preservation of Cultural Heritage on Madagascar*: \$25,000
- Penn State Center for Security Research and Education*
- 2018 Seed Grant: *Vezo Ecological Knowledge Exchange*: \$15,000
- Yale Institute for Biospheric Studies*
- 2012 Dissertation Improvement Grant: *The Morombe Archaeological Project*: \$10,000
- Yale University MacMillan Center for International and Area Studies*
- 2012 MacMillan Dissertation Grant: *The Morombe Archaeological Project*: \$15,000
- 2011 MacMillan Pre-Dissertation Grant: *The Morombe Archaeological Project*: \$4,000
- Yale University Council on Archaeological Studies*
- 2016 Michael Coe Fieldwork Fund: Archival research: \$1,183
- 2014 Augusta Hazard Fund: *The Morombe Archaeological Project*: \$6,510
- 2012 Augusta Hazard Fund: British School at Athens Petrography Course: \$2,342
- 2011 Michael Coe Fieldwork Fund: *The Morombe Archaeological Project*: \$2,576
- 2010 Josef Albers Traveling Fund: Excavations in Huanchaco, Peru: \$4,500
- 2010 Michael Coe Fieldwork Fund: Excavations in Limpopo, South Africa: \$2,500
- 2009 Michael Coe Fieldwork Fund: University of Chicago Archaeological Field School, Ngasobil, Senegal: \$8,500
- Yale University Department of Anthropology*
- 2014 Schwartz Family Foundation Fund: to present at The Society for Africanist Archaeology/Pan-African Congress, Johannesburg, South Africa: \$1,000
- 2011 Williams Fund: Archaeological reconnaissance of Morombe, Madagascar: \$3,000
- 2010 Schwartz Family Foundation Fund: to present at the 109th Annual Meeting of the American Anthropological Association: \$750
- 2009 Schwartz Family Foundation Fund: to attend the 108th Annual Meeting of the American Anthropological Association: \$750
- Yale University Graduate School of Arts and Sciences*
- 2014 University Dissertation Fellowship stipend and tuition, 2014-15 academic year
- 2010 University Fellowship, stipend and tuition, 2010-14 academic years

2009 Allan H. Smith Fellowship, stipend and tuition, 2009-10 academic year

Dartmouth College and Phillips Academy Andover

2004 Dartmouth-Andover Scholarship: full tuition and fees to complete an A.B. at Dartmouth College, 2004-2007

Funding for Public Outreach

Rotary International District Grants

2018 The Andavadoaka Library Project and MAP Scholarship: \$1,200

2015 The Andavadoaka Library Project and MAP Scholarship: \$2,000

2014 The Andavadoaka Library Project and MAP Scholarship: \$2,400

2014- *GoFundMe.com*

2015 The MAP Scholarship: \$2,900

AWARDS

The Ford Foundation

2011 Honorable Mention and Alternate Awardee in the Predoctoral Fellowship competition

2010 Honorable Mention and Alternate Awardee in the Predoctoral Fellowship competition

Dartmouth College

2007 Office of Black Student Advising Academic Honors

2006 Office of Black Student Advising Academic Honors

2006 Citation for Academic Excellence in Classical Studies 2, Spring Term

2006 Citation for Academic Excellence in Greek 30, Summer Term

2005 Office of Black Student Advising Academic Honors

2004 Office of Black Student Advising Academic Honors

2004 Third Honor Group, academic year 2003-2004

2004 First Year Office Academic Honors, academic year 2003-2004

ACADEMIC SERVICE

2020-present Guest Editor, *Malagasy Nature*

2020-present Editorial board member, *Journal of Anthropological Archaeology*

2020-present Editorial board member, *African Archaeological Review*

2020-present Editorial board member, Elements series, *Cambridge University Press*

2019-present Associate Editor, *Journal of Ethnobiology*

2018-present Associate Editor, *Journal of Island and Coastal Archaeology*

2017-2018 Book Review Editor, *Journal of Island and Coastal Archaeology*

2016-2018 Guest Editor, *Quaternary International*

2016-2019 Co-Editor, *The Current: Newsletter of the Island and Coastal Archaeology Interest Group*, Society for American Archaeology

SELECT INVITED TALKS

Douglass, K.

2018 “Humanizing the Anthropocene of Madagascar”, William Fagg Memorial Lecture, The British Museum

Douglass, K.

2018 “Human-Environment Dynamics in Madagascar Archaeology: Chronology vs. Process”, African Archaeology Group Seminar, McDonald Institute for Archaeological Research, University of Cambridge

Douglass, K.

2018 “Environmental Archaeology and Late Holocene Lifeways of Southwest Madagascar”, Environmental Archaeology Seminar Series, Dartmouth College

Douglass, K.

2017 “Humanizing the Anthropocene of Madagascar”, Natures Colloquium Series, the University of Pennsylvania

Douglass, K.

2017 “The Anthropocene of Madagascar”, National Geographic Society, Washington, D.C.

Douglass, K.

2017 “Late Holocene Resource Exploitation and Settlement in the Velondriake Marine Protected Area, Southwest Madagascar”, Department of Anthropology, The University of Virginia, Charlottesville, VA

Douglass, K.

2017 “Integrating Archaeology and Conservation in Southwest Madagascar”, Smithsonian Environmental Research Center, Edgewater, MD

Douglass, K.

2016 “The Archaeology of Velondriake, Southwest Madagascar”, invited talk for the Smithsonian’s Center for Conservation and Evolutionary Genetics, National Zoological Park, Washington, D.C.

SELECT CONFERENCE PAPERS AND POSTERS

Douglass, K. , G. Manahira, F. Fenomanana and V. Vavisoa

2018 “Integrated people, practice and knowledge in the archaeology of southwest Madagascar”, paper presented at the 83rd Annual Meeting of the Society for American Archaeology, Washington, DC

Douglass, K. and H. Wright

2017 “The Anthropocene of Madagascar”, paper presented at the 82rd Annual Meeting of the Society for American Archaeology, Vancouver, BC

Douglass, K.

2017 “New Methodological and Theoretical Approaches to Understanding Human-Ratite Interactions and Ratite Extinctions”, paper presented at Megafauna Extinctions Workshop, The Max Planck Institute for the Science of Human History, Jena, Germany

Douglass, K.

2016 “Spontaneous Belonging and Dynamic Flexibility: Archaeological, Historical and Ethnographic Understandings of Social Identity on the Spiny Desert Coast of Velondriake, Southwest Madagascar”, paper presented at the 59th Annual Meeting of the African Studies Association, Washington, D.C.

Douglass, K.

2016 “The Archaeology of Settlement, Resource Exploitation and Interaction in the Velondriake Marine Protected Area, Southwest Madagascar, ca. 900 BC to AD 1900, paper presented at the 23rd Biennial Meeting of the Society for Africanist Archaeologists, Toulouse, France

Grealy, A.; **K. Douglass**; J. Haile, M. Bunce, C. Bruwer and C. Gough

2016 “Application of aDNA Bulk Bone Metabarcoding to an Archaeological Fish Bone Assemblage from Velondriake, Southwest Madagascar”, paper presented at the 23rd Biennial Meeting of the Society for Africanist Archaeologists, Toulouse, France

Douglass, K.

2016 “Resource Exploitation Patterns in the Velondriake Marine Protected Area, Southwest Madagascar, ca. 900 BC-AD 900”, paper presented at the 81st Annual Meeting of The Society for American Archaeology, Orlando, FL

RESEARCH AND FIELDWORK

2017-present Principal Investigator, *Megafauna Extinctions in SW Madagascar*

2017-present Principal Investigator, *Testing Models of Cultural Change through Archaeological Survey and Oral History among Mikea Agro-Pastoralists of SW Madagascar*

Co-PI: Dr. Bram Tucker, Department of Anthropology, University of Georgia

2016-present Principal Investigator, *SEM and Micro-CT Study of Egg Harvesting and Consumption Patterns: Human Impacts on Madagascar’s Elephant Birds*

2016-present Principal Investigator, *SEM and Micro-CT Study of Egg Harvesting and Consumption Patterns: Human Impacts on the Moa of New Zealand*

Co-PI: Dr. Richard Walter, Department of Anthropology and Archaeology, University of Otago, Dunedin, New Zealand

2014 Co-Principal Investigator, *Elephant Bird Eggshell Starch Grain Residue Project*

PI: Dr. Neil Duncan, Department of Anthropology, University of Central Florida;
Co-PI: Tricia Owlett, Department of Anthropology, Stanford University

- 2014 Co-Principal Investigator, *A Comparative Study of Eggshell Pore Morphology of Palaeognath Birds*
Co-PI's: Dr. Will Jaekle and Dr. Given Harper, Department of Biology, Illinois Wesleyan University
- 2011-present Principal Investigator, *The Morombe Archaeological Project, Atsimo-Andrefana, Madagascar*
- 2011 Trench Supervisor, *Andavakoera Survey and Excavation, Antsingy-Antsirana, Madagascar*. Principal Investigators: Dr. Henry Wright, University of Michigan and Dr. Robert Dewar, University of Connecticut
- 2011 Surveyor, *Ivato Survey, Antananarivo, Madagascar*
Principal Investigator: Dr. Henry Wright, University of Michigan
- 2010 Trench Supervisor, *Waterpoort Archaeological Project, Limpopo Valley, South Africa*
Principal Investigator: Dr. Alexander Antonites, University of Pretoria
- 2010 Faunal Analyst, *An Archaeological Investigation of Zhizo/Leokwe Foodways at Schroda and Pont Drift, Limpopo Valley, South Africa*
Principal Investigator: Dr. Annie Antonites, University of South Africa
- 2010 Trench Supervisor, *Pampa Gramalote Archaeological Project, Huanchaco, Peru*
Principal Investigator: Dr. Gabriel Prieto, National University of Trujillo
- 2009 Field School Student, *Yale University Council on Archaeological Studies Field School, Bethlehem, PA*. Directors: Dr. John Hale, University of Louisville and Dr. Jason Nesbitt, Tulane University
- 2009 Field School Student, *University of Chicago Summer Archaeological Field School, Ngasobil, Senegal*. Directors: Dr. François Richard, University of Chicago and Dr. Ibrahima Thiaw, Université Cheikh Anta Diop de Dakar

TEACHING

- 2017- Assistant Professor, ANTH 572 (Advanced Anthropological Methods); ANTH 152 (Hunter-Gatherers), ANTH 497 (African Archaeology), ANTH 009 (Rise of Old World Civilizations), Department of Anthropology, Penn State University, University Park, PA
- 2016 Adjunct Professor, ANTH 370 (Environment and Culture), Department of Sociology and Anthropology, George Mason University, Fairfax, VA

- 2011- Director and Archaeological Field Methods Instructor, Archaeological Research Center, present Andavadoaka, Madagascar
- 2011- Social Sciences Graduate Writing Fellow, The Graduate Writing Center, Yale University, 2016 New Haven, CT
- 2012 Teaching Assistant for “Landscapes of Meaning: Museums and their Objects” Department of Anthropology, Yale University, New Haven, CT
- 2012 Instructor for “African Material Culture Workshop”, Yale University Art Gallery, New Haven, CT
- 2008- Lecturer in French, Department of Romance Languages, the University of Pennsylvania, 2009 School of Arts and Sciences, Philadelphia, PA
- 2007- French and Russian Instructor for Accelerated Language Programs (ALPS), The Rassias 2008 Foundation at Dartmouth College, Hanover, NH
- 2003- French Instructor for Apprentice Teacher Program, Dartmouth College, Department of 2007 French and Italian, Hanover, NH
- 2006 Teaching Assistant for Classical Mythology, Dartmouth College, Department of Classics, Hanover, NH
- 2003- Open Water, Advanced Open Water and Rescue Diver SCUBA Instructor, Dartmouth 2004 College, Department of Physical Education, Hanover, NH
- 2003 Assistant Open Water SCUBA Instructor and Divemaster, Mermaids Dive School, Pattaya, Thailand

ADDITIONAL TRAINING

- 2012 Ceramic Petrology, The Fitch Laboratory, British School at Athens
- 2014 CartoDB Mapping. Instructor: Andrew Hill, CartoDB
- 2012 Advanced Skills with GIS Data and ArcGIS. Instructor: Stacey Maples, Yale University

EMPLOYMENT

- 2011-2012 Research and Public Outreach Intern for the Timeline Bead Collection, Peabody Museum, Yale University, New Haven, CT
- 2009-2011 Research Assistant, Dept. of Anthropology, Yale University, New Haven, CT
- 2004-2007 Research Assistant, Dept. of Classics, Dartmouth College, Hanover, NH

PROFESSIONAL MEMBERSHIPS

- Society for American Archaeology

- The American Anthropological Association
- The Society for Africanist Archaeologists
- The African Studies Association
- The Association for Southern African Professional Archaeologists
- Professional Association of Diving Instructors (PADI): Open Water SCUBA and Emergency First Response Instructor #1883351

LANGUAGES

- English and French: Native speaker
- Vevo and Merina (Malagasy): Highly proficient
- Russian, German and Spanish: Proficient speaking, reading and writing
- Latin and Ancient Greek: Proficient reading and translating