

**GENERAL INFORMATION**

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**EDUCATION**

<u>Institution</u>	<u>Dates</u>	<u>Area</u>	<u>Degree</u>	<u>Advisor</u>
University of Chicago	2008-2011	Human Genetics	Postdoctoral	Yoav Gilad
Arizona State University	2005-2008	Anthropology	Ph.D.	Anne Stone
Harvard Medical School	2005-2008	Cytogenetics	Predoctoral	Charles Lee
Arizona State University	2003-2005	Anthropology	M.A.	Anne Stone
Wake Forest University	1995-1999	Anthropology	B.A.	David Weaver

**EMPLOYMENT HISTORY**

- 2019- Chair, Bioinformatics & Genomics Graduate Program, Penn State University  
 2017- Associate Professor, Departments of Anthropology and Biology, Penn State University  
 The Huck Institutes of the Life Sciences, Penn State University  
 2018-2019 Fellow, "Words, Bones, Genes, Tools" Center for Advanced Studies, University of Tübingen  
 2017-2019 Harry J. and Elissa M. Sichi Early Career Professor of Anthropology, Penn State University  
 2011-2017 Assistant Professor, Departments of Anthropology and Biology, Penn State University

**RESEARCH INTERESTS**

Anthropological genomics • Ancient DNA • Human body size evolution • Human impacts on non-human evolutionary biology • Parasites as proxies for human evolution • Human evolutionary medicine

**PUBLICATIONS** ( Postdoc & PhD trainees, Undergraduate trainees<sup>†</sup> )

- Submitted Hernandez M, Shenk MK, & **Perry GH**, Factors influencing taxonomic unevenness in scientific research: A mixed-methods case study of non-human primate genomic sequence data generation. *bioRxiv* preprint: <https://doi.org/10.1101/2020.04.16.045450>
- Submitted Sullivan AP, Godfrey LR, Lawler RR, Randrianatoandro H, Eccles L, Culleton B, Ryan TM, & **Perry GH**, Potential evolutionary body size reduction in a Malagasy primate (*Propithecus verreauxi*) in response to human size-selective hunting pressure. *bioRxiv* preprint: <https://doi.org/10.1101/2020.03.23.004234>
- In press **Perry GH**, How human behavior can impact the evolution of genetically-mediated behavior in wild non-human species. *Journal of Comparative Physiology A*.
- In press Grogan KE & **Perry GH**, Studying human and non-human primate evolutionary biology with powerful *in vitro* and *in vivo* functional genomic tools. *Evolutionary Anthropology*.
- 2020 Burney DA, Andriamialison H, Andrianaivoarivelo RA, Bourne S, Crowley BE, de Boer EJ, Godfrey LR, Goodman SM, Griffiths C, Griffiths O, Hume JP, Joyce W, Jungers WL, Marciniak S, Middleton G, Muldoon KM, Noromalala E, Pérez VR, **Perry GH**, Randalana R, & Wright H, Subfossil lemur discoveries from Beanka protected area in western Madagascar. *Quaternary Research* 93:187-203.
- 2019 Harrison GF, Sanz J, Boulais J, Mina MJ, Grenier JC, Leng Y, Dumaine A, Yotova V, Bergey CM, Nsohya S, Elledge SJ, Schurr E, Quintana-Murci L, **Perry GH\***, & Barreiro LB\*, Natural

- selection contributed to immunological differences between human hunter-gatherers and agriculturalists. *Nature Ecology and Evolution* 3:1253-1264. \*co-senior authors.
- 2019 **Perry GH** & Makarewicz CA, Horse paleogenomics and human-animal interactions in prehistory. *Trends in Genetics* 35:474-475.
- 2019 Lopez M, Choin J, Sikora M, Siddle K, Harmant C, Costa HA, Silvert M, Mouguiama-Daouda P, Hombert JM, Froment A, Le Bomin S, **Perry GH**, Barreiro LB, Bustamante CD, Verdu P, Patin E, & Quintana-Murci L, Genomic evidence for local adaptation of hunter-gatherers to the African rainforest. *Current Biology* 29:2926-2935.
- 2019 Zavala EI, Rajagopal S, **Perry GH**, Kruzic I, Bašić Ž, Parsons TJ, & Holland MM, Impact of DNA degradation on massively parallel sequencing-based autosomal STR, iSNP, and mitochondrial DNA typing systems. *International Journal of Legal Medicine* 133:1369-80.
- 2018 Bergey CM, Lopez M, Harrison GF, Patin E, Cohen Jt, Quintana-Murci L, Barreiro LB, & **Perry GH**, Polygenic adaptation and convergent evolution on growth and cardiac genetic pathways in African and Asian rainforest hunter-gatherers. *Proceedings of the National Academy of Sciences USA* 115:E11256-E11263.
- 2018 Aylward M, Sullivan AP, **Perry GH**, Johnson SE, & Louis EE, An environmental DNA sampling method for aye-ayes from their feeding traces. *Ecology and Evolution* 8:9229-9240.
- 2018 Lopez M, Kousathanas A, Quach H, Harmant C, Mouguiama-Daouda P, Hombert JM, Froment A, **Perry GH**, Barreiro LB, Verdu P, Patin E, & Quintana-Murci L, The demographic history and mutational load of African hunter-gatherers and farmers. *Nature Ecology and Evolution* 2:721-730.
- 2018 Hixon SW, Elliott Smith EA, Crowley BE, **Perry GH**, Randrianasy J, Ranaivoarisoa JF, Kennett DJ, & Newsome SD, Nitrogen isotope ( $\delta^{15}\text{N}$ ) patterns for amino acids in lemur bones are inconsistent with aridity driving megafaunal extinction in south-western Madagascar. *Journal of Quaternary Science* 33:958-968.
- 2017 Marciniak S & **Perry GH**, Harnessing ancient genomes to study the history of human adaptation. *Nature Reviews Genetics* 18:659-674.
- 2017 **Perry GH** & Codding BF, Stone tool use: Monkeys overharvest shellfish. *eLife* 6:e30865.
- 2017 Sullivan AP, Bird DW, & **Perry GH**, Human behaviour as a long-term ecological driver of non-human evolution. *Nature Ecology and Evolution* 1:0065.
- 2017 Patin E, Lopez M, Grollemund R, Verdu P, Harmant C, Quach H, Laval G, **Perry GH**, Barreiro LB, Froment A, Heyer E, Massougbodji A, Fortes-Lima C, Bellis G, Dugoujon JM, Pereira JB, Fernandes V, Pereira L, Van der Veen L, Mouguiama-Daouda P, Bustamante CD, Hombert JM, & Quintana-Murci L, Dispersals and genetic adaptation of Bantu-speaking populations in Africa and North America. *Science* 356:543-546.
- 2017 Kennett DJ, Plog S, George RJ, Culleton BJ, Watson AS, Skoglund P, Rohland N, Mallick S, Stewardson K, Kistler L, LeBlanc SA, Whiteley PM, Reich D, & **Perry GH**, Archaeogenomic evidence reveals prehistoric matrilineal dynasty. *Nature Communications* 8:14115.
- 2017 Sullivan AP, de Manuel M, Marques-Bonet T, & **Perry GH**, An evolutionary medicine perspective on Neandertal extinction. *Journal of Human Evolution* 108:62-71.
- 2017 Kistler L, Johnson SM, Irwin MT, Louis EE, Ratan A, & **Perry GH**, A massively parallel strategy for STR marker development, capture, and genotyping. *Nucleic Acids Research* 45:e142.

- 2017 Vukelic A<sup>†</sup>, Cohen J<sup>†</sup>, Sullivan AP, & **Perry GH**, Extending genome-wide association study results to test classic anthropological hypotheses: Human third molar agenesis and the 'probable mutation effect.' *Human Biology* 89:157-169.
- 2017 **Perry GH** & Verdu P, Genomic perspectives on the history and evolutionary ecology of tropical rainforest occupation by humans. *Quaternary International*. 448:150-157.
- 2017 Bankoff RJ, Jerjos M<sup>†</sup>, Hohman B<sup>†</sup>, Lauterbur E, Kistler L, & **Perry GH**, Testing convergent evolution in auditory processing genes between echolocating mammals and the aye-aye, a percussive-foraging primate. *Genome Biology and Evolution* 9: 1978-1989.
- 2017 Trizzino M, Park Y, Holsach-Beltrame M, Aracena K, Mika K, Caliskan M, **Perry GH**, Lynch VJ, & Brown CD, Transposable elements are the primary source of novelty in primate gene regulation. *Genome Research* 27:1623-1633.
- 2017 Crowley BE, Godfrey LR, Bankoff RJ, **Perry GH**, Culleton BJ, Kennett DJ, Sutherland MR, Samonds KE, Burney DA, Island-wide aridity did not trigger recent megafaunal extinctions in Madagascar. *Ecography* 40:901-912.
- 2017 Moritz GL, Ong PS, **Perry GH**, & Dominy NJ, Functional preservation and variation in the cone opsin genes of nocturnal tarsiers. *Philosophical Transactions of the Royal Society B*. 372:20160075.
- 2017 Lei R, Frasier CL, Hawkins MTR, Engberg SE, Bailey CA, McLain AT, Groves CP, Johnson SE, **Perry GH**, Nash SD, Mittermeier RA, & Louis EE, Phylogenomic reconstruction of sportive lemurs (genus *Lepilemur*) recovered from mitogenomes with inferences for Madagascar biogeography. *Journal of Heredity* 108:107-119.
- 2016 Hubbard TS, Murray IA, Bisson W, Sullivan AP, Sebastien A, **Perry GH**, Jablonski N, & Perdew GH, Divergent Ah receptor ligand selectivity during hominin evolution. *Molecular Biology and Evolution* 33:2648-2658.
- 2016 Bankoff RJ & **Perry GH**, Hunter-gatherer genomics: Evolutionary insights and ethical considerations. *Current Opinion in Genetics and Development* 41:1-7.
- 2016 Thompson KET<sup>†</sup>, Bankoff RJ, Louis EE, & **Perry GH**, Deadwood structural properties may influence aye-aye (*Daubentonia madagascariensis*) extractive foraging behavior. *International Journal of Primatology* 37:281-295.
- 2016 Federman S, Dornburg A, Daly DC, Downie A, **Perry GH**, Yoder AD, Sargis EJ, Richard AF, Donoghue MJ, & Baden AL, Implications of lemuriform extinctions for the Malagasy flora. *Proceedings of the National Academy of Sciences, USA* 113:5041-5046.
- 2016 Melin AD, Wells K, Moritz GL, Kistler L, Orkin JD, Timm RM, Bernard H, Lakim MB, **Perry GH**, Kawamura S, & Dominy NJ, Euarchontan opsin variation brings new focus to primate origins. *Molecular Biology and Evolution* 33:1029-1041.
- 2015 Bankoff RJ, Randrianatoandro HDD, & **Perry GH**, Primate conservation genomics and paleogenomics. *American Anthropologist* 117:742-743.
- 2015 Kistler L, Newsom LA, Ryan TM, Clarke AC, Smith BD, & **Perry GH**, Gourds and squashes (*Cucurbita* spp.) adapted to megafaunal extinction and ecological anachronism through domestication. *Proceedings of the National Academy of Sciences, USA* 112:15107-15112.
- 2015 Fagny M, Patin E, Maclsaac J, Rotival M, Flutre T, Jones M, Siddle KJ, Quach H, Harmant C, McEwen L, Froment A, Heyer E, Gessain A, Betsem E, Mouguiama-Daouda P, Hombert JM, **Perry GH**, Barreiro LB, Kobor MS, & Quintana-Murci L, The epigenomic landscape of African rainforest hunter-gatherers and farmers. *Nature Communications* 6:10047.

- 2015 Lynch VJ, Bedoya-Reina OC, Ratan A, Sulak M, Drautz-Moses DI, **Perry GH**, Miller W, & Schuster SC, Elephantid genomes reveal the molecular bases of woolly mammoth adaptations to the arctic. *Cell Reports* 12:217-28.
- 2015 **Perry GH** & Orlando L, Ancient DNA and human evolution. *Journal of Human Evolution* 79:1-3.
- 2015 Kistler L, Ratan A, Godfrey LR, Crowley BE, Hughes CE, Lei R, Cui Y, Wood ML, Muldoon KM, Andriamialison H, McGraw JJ, Tomsho LP, Schuster SC, Miller W, Louis EE, Yoder AD, Malhi RS, & **Perry GH**, Comparative and population mitogenomic analyses of Madagascar's extinct, giant 'subfossil' lemurs. *Journal of Human Evolution* 79:45-54.
- 2015 **Perry GH**, Kistler L, Keleita MA, & Sams AJ, Insights into hominin phenotypic and dietary evolution from ancient DNA sequence data. *Journal of Human Evolution* 79:55-63.
- 2014 **Perry GH**, Parasites and human evolution. *Evolutionary Anthropology* 23:218-28.
- 2014 **Perry GH**, Foll M, Grenier JC, Patin E, Nedelec Y, Pacis A, Barakatt M, Gravel S, Zhou X, Nsobya S, Excoffier L, Quintana-Murci L, Dominy NJ, & Barreiro LB, Adaptive, convergent origins of the pygmy phenotype in African rainforest hunter-gatherers. *Proceedings of the National Academy of Sciences, USA* 111:E3596-603.
- 2014 Hodgson JA, Pickrell JK, Pearson LN, Quillen EE, Prista A, Rocha J, Soodyall H, Shriver MD, & **Perry GH**, Natural selection for the Duffy-null allele in the recently admixed people of Madagascar. *Proceedings of the Royal Society B* 281: 2014930.
- 2014 Kim HL, Ratan A, **Perry GH**, Montenegro A, Miller W, & Schuster SC, Khoisan hunter-gatherers have been the largest population throughout the majority of modern human demographic history. *Nature Communications* 5:5692.
- 2014 **Perry GH**, The promise and practicality of population genomics research with endangered species. *International Journal of Primatology* 35:55-70.
- 2014 Blekhman R, **Perry GH**, Shahbaz S, Fiehn O, Clark AG, & Gilad Y, Comparative metabolomics in primates reveals the effects of diet and gene regulatory variation on metabolic divergence. *Scientific Reports* 4:5809.
- 2014 Patin E, Siddle K, Laval G, Quach H, Harmant C, Becker N, Froment A, Regnault B, Lemee L, Gravel S, Hombert JM, Van der Veen L, Dominy NJ, **Perry GH**, Barreiro LB, Verdu P, Heyer E, & Quintana-Murci L, The impact of agricultural emergence on the genetic history of African rainforest hunter-gatherers and agriculturalists. *Nature Communications* 5:3163.
- 2013 **Perry GH**, Louis EE, Ratan A, Bedoya-Reina OC, Burhans R, Lei R, Johnson SE, Schuster SC, & Miller W, Aye-aye population genomic analyses highlight an important center of endemism in northern Madagascar. *Proceedings of the National Academy of Sciences, USA* 110:5823-8.
- 2013 Bedoya-Reina OC, Ratan A, Burhans R, Kim HL, Giardine B, Riemer C, Li Q, Olson TL, Loughran TP, vonHoldt BM, **Perry GH**, Schuster SC, & Miller W, Galaxy tools to study genome diversity. *GigaScience* 2:17.
- 2012 **Perry GH**, Melsted P, Marioni JC, Wang Y, Bainer R, Pickrell JK, Michelini K, Zehr S, Yoder AD, Stephens M, Pritchard JK, & Gilad Y, Comparative RNA sequencing reveals substantial genetic variation in endangered primates. *Genome Research* 22:602-10.
- 2012 **Perry GH**, Reeves D, Melsted P, Ratan A, Miller W, Michelini K, Louis EE, Pritchard JK, Mason CE, & Gilad Y, A genome sequence resource for the aye-aye (*Daubentonia madagascariensis*), a nocturnal lemur from Madagascar. *Genome Biology & Evolution* 4:126-35.

- 2012 **Perry GH**, Xue Y, Smith RS, Meyer WK, Çalışkan M, Yanez-Cuna O<sup>†</sup>, Lee AS<sup>†</sup>, Gutiérrez-Arcelus M<sup>†</sup>, Ober C, Hollox EJ, Tyler-Smith C, & Lee C, Evolutionary genetics of the human Rh blood group system. *Human Genetics* 131:1205-16.
- 2012 Iskow RC, Gokcumen O, Abyzov A, Malukiewicz J, Zhu Q, Sukumar AT, Pai AA, Mills RE, Habegger L, Cusanovich DA, Rubel MA, **Perry GH**, Gerstein M, Stone AC, Gilad Y, & Lee C, Regulatory element copy number differences shape primate expression profiles. *Proceedings of the National Academy of Sciences, USA* 12656-61.
- 2012 Villanea FA<sup>†</sup>, **Perry GH**, Gutierrez-Espeleta GA, & Dominy NJ, *ASPM* and the evolution of cerebral cortical size in a community of New World monkeys. *PLoS ONE* 7:e44928.
- 2012 Lei R, Rowley TW, Zhu L, Bailey CA, Engberg SE, Wood ML, Christman MC, **Perry GH**, Louis EE, & Lu G, PhyloMarker – a tool for mining phylogenetic markers through genome comparison: Application of the mouse lemur (genus *Microcebus*) phylogeny. *Evolutionary Bioinformatics* 8:423-35.
- 2010 **Perry GH**, Marioni JC, Melsted P, & Gilad Y, Genomic-scale capture and sequencing of endogenous DNA from feces. *Molecular Ecology* 19:5332-44.
- 2010 Luca F, **Perry GH**, & Di Rienzo A, Evolutionary adaptations to dietary changes. *Annual Review of Nutrition* 30:291-314.
- 2010 **Perry GH** & Pickrell JK, A rod cell marker of nocturnal ancestry. *Journal of Human Evolution* 58:207-10.
- 2010 Stone AC, Battistuzzi FU, Kubatko LS, **Perry GH**, Trudeau E, Lin H, & Kumar S, More reliable estimates of divergence times in *Pan* using complete mtDNA sequences and accounting for population structure. *Philosophical Transactions of the Royal Society B* 365:3277-88.
- 2009 **Perry GH** & Dominy NJ, Evolution of the human pygmy phenotype. *Trends in Ecology and Evolution* 24:218-25.
- 2008 **Perry GH**, Yang F, Marques-Bonet T, Murphy C, Fitzgerald T, Lee AS, Hyland C, Stone AC, Hurles ME, Tyler-Smith C, Carter NP, Lee C, & Redon R, Copy number variation and evolution in humans and chimpanzees. *Genome Research* 18:1698-710.
- 2008 **Perry GH**, Ben-Dor A, Tsalenko A, Sampas N, Rodriguez-Revenga L, Tran CW, Scheffer A, Steinfeld I, Tsang P, Yamada NA, Han Soo P, Il Kim J, Sun Seo J, Yakhini Z, Laderman S, Bruhn L, & Lee C, The fine-scale and complex architecture of human copy-number variation. *American Journal of Human Genetics* 82:685-95.
- 2008 **Perry GH**, The evolutionary significance of copy number variation in the human genome. *Cytogenetic and Genome Research* 123:283-87.
- 2008 Lee AS<sup>†</sup>, Gutiérrez-Arcelus M<sup>†</sup>, **Perry GH**, Vallender EJ, Johnson WE, Miller GM, Korbelt JO, & Lee C, Analysis of copy number variation in the rhesus macaque genome identifies candidate loci for evolutionary and human disease studies. *Human Molecular Genetics* 17:1127-36.
- 2008 Verrelli BC, Stone AC, Lewis CM, & **Perry GH**, Different selective pressures shape the molecular evolution of color vision in chimpanzee and human populations. *Molecular Biology and Evolution* 25:2735-43.
- 2008 Ionita-Laza I, **Perry GH**, Raby BA, Klanderma B, Lee C, Laird NM, Weiss ST, & Lange C, On the analysis of copy-number variations in genome-wide association studies: A translation of the family-based association test. *Genetic Epidemiology* 32:273-84.
- 2007 **Perry GH**, Dominy NJ, Claw CG<sup>†</sup>, Lee AS<sup>†</sup>, Fiegler H, Redon R, Werner J, Villanea FA<sup>†</sup>, Mountain JL, Misra R, Carter NP, Lee C, & Stone AC, Diet and the evolution of human amylase gene copy number variation. *Nature Genetics* 39:1256-60.

- 2007 **Perry GH**, Martin RD, & Verrelli BC, Signatures of functional constraint at aye-aye opsin genes: The potential of adaptive color vision in a nocturnal primate. *Molecular Biology and Evolution* 24:1963-70.
- 2007 **Perry GH**, Tito RY, & Verrelli BC, The evolutionary history of human and chimpanzee Y-chromosome gene loss. *Molecular Biology and Evolution* 24:853-9.
- 2006 Redon R\*, Ishikawa S\*, Fitch KR\*, Feuk L\*, **Perry GH\***, Andrews TD, Fiegler H, ..., Tyler-Smith C, Carter NP, Aburatani H, Lee C, Jones KW, Scherer SW, & Hurles ME, Global variation in copy number in the human genome. *Nature* 444:444-54. \*co-first authors
- 2006 **Perry GH**, Tchinda J, McGrath SD, Zhang J, Picker SR†, Caceres AM†, Iafrate AJ, Tyler-Smith C, Scherer SW, Eichler EE, Stone AC, & Lee C, Hotspots for copy number variation in chimpanzees and humans. *Proceedings of the National Academy of Sciences, USA* 103:8006-11.
- 2006 Freeman JL, **Perry GH**, Feuk L, Redon R, McCarroll SA, Altshuler DM, Aburtani H, Jones KW, Tyler-Smith C, Hurles ME, Carter NP, Scherer SW, & Lee C, Copy number variation: New insights in genome diversity. *Genome Research* 16:949-61.
- 2006 **Perry GH**, Verrelli BC, & Stone AC, Molecular evolution of the primate developmental genes *MSX1* and *PAX9*. *Molecular Biology and Evolution* 23:644-54.
- 2006 McCarroll SA, Hadnott TN, **Perry GH**, Sabeti PC, Zody MC, Barrett JC, Dallaire S, Gabriel SB, Lee C, Daly MJ, & Altshuler DM, Common deletion polymorphisms in the human genome. *Nature Genetics* 38:86-92.
- 2005 **Perry GH**, Verrelli BC, & Stone AC, Comparative analyses reveal a complex history of molecular evolution for human *MYH16*. *Molecular Biology and Evolution* 22:379-82.

#### ARCHIVED PREPRINTS

- 2017 Evanitsky MN†, George RJ, Johnson S, Dowell S, & **Perry GH**, Mitochondrial genomes of the extinct Nittany Lion (*Puma concolor* from Pennsylvania). *bioRxiv* preprint: <https://doi.org/10.1101/214510>

#### INVITED SEMINARS

Year	University	Department or Institute
2020	Uppsala University (Uppsala, Sweden)	Ecology & Evolution; Cancelled: Covid-19
2019	National University of Mexico (Querétaro, MX)	International Lab for Human Genome Research
2019	Konrad Lorenz Institute (Vienna, Austria)	Theoretical Biology
2018	Max Planck Institute (Tübingen, Germany)	Developmental Biology
2018	University of Tübingen (Germany)	Institute for Archaeological Science
2018	University of Colorado (Boulder, CO)	Anthropology; <i>Distinguished Lecture</i>
2018	Stony Brook University (Stony Brook, NY)	Ecology and Evolution
2017	Harvard Medical School (Boston, MA)	Genetics
2017	Institut Pasteur (Antananarivo, Madagascar)	Malaria and Infectious Disease
2017	Hunter College (New York, NY)	Anthropology
2017	Stanford University (Palo Alto, CA)	Computational, Evol., & Human Genomics
2016	University of Antananarivo (Madagascar)	Anthropology & Sustainable Development
2016	Juniata College (Huntingdon, PA)	HHMI Genomics Leadership Initiative
2016	George Washington Univ (Washington, DC)	Center for Adv Study of Human Paleobiology
2016	University of Michigan (Ann Arbor, MI)	Anthropology; <i>Student-invited speaker</i>
2015	University of Tennessee (Knoxville, TN)	Anthropology
2015	Rutgers University (New Brunswick, NJ)	Global Advancement & International Affairs
2015	Wayne State University (Detroit, MI)	Molecular Medicine and Genetics
2015	State University of New York at Buffalo (NY)	Ecology, Evolution, and Behavior

2015	Harvard University (Cambridge, MA)	Human Evolutionary Biology
2015	Washington State University (Pullman, WA)	Biology; <i>Student-invited plenary speaker</i>
2015	Virginia Commonwealth Univ (Richmond, VA)	School of World Studies
2014	Howard University (Washington, DC)	Biology
2014	University of Pennsylvania (Philadelphia, PA)	Anthropology
2014	Columbia University (New York, NY)	Biological Sciences
2014	University of Antananarivo (Madagascar)	Paleontology and Biological Anthropology
2014	Rutgers University (New Brunswick, NJ)	Anthropology
2014	University of Iowa (Iowa City, IA)	Anthropology
2013	University of Zurich (Switzerland)	Anthropological Institute and Museum
2013	Barcelona Biomedical Research Park (Spain)	Institute of Evolutionary Biology
2013	Duke University (Durham, NC)	Evolutionary Anthropology
2013	Duquesne University (Pittsburgh, PA)	Biological Sciences
2013	New York University (New York, NY)	CSHO; Anthropology
2013	University of Calgary (Canada)	Visiting Speakers Primatology; Anthropology
2011	Duke University (Durham, NC)	Duke Lemur Center
2010	Université de Nantes (France)	Institute du Thorax
2010	Pontificia Universidad Católica (Chile)	School of Medicine; Nutrition
2010	Duke University (Durham, NC)	Evolutionary Anthropology
2009	Hunter College (New York, NY)	NYCEP; Anthropology
2009	University of Leicester (UK)	Genetics
2007	Wellcome Trust Sanger Centre (UK)	Human Genetics

### CONFERENCE PRESENTATIONS

<u>Date</u>	<u>Meeting (Location)</u>	<u>Type</u>	<u>Notes</u>
2020	Domesticating the Earth (Max Planck; Bavaria, Germany)	Podium	Invited; Cancelled
2020	American Assn of Physical Anthropologists (Los Angeles, CA)	Podium	Cancelled: Covid-19
2019	American Assn of Physical Anthropologists (Cleveland, OH)	Podium	Invited symposium
2018	International Congress of Neuroethology (Brisbane, Australia)	Podium	President's symposium
2018	American Assn of Physical Anthropologists (Austin, TX)	Podium	
2018	Kavli Frontiers, National Academy of Sciences (Irvine, CA)	Poster	Invited symposium
2018	Society for Integrative & Comparative Biology (San Fran, CA)	Podium	
2017	American Assn of Physical Anthropologists (New Orleans, LA)	Poster	Invited symposium
2016	Genetics of Adaptation (Bangalore, India)	Podium	Invited speaker
2016	Human Rainforest Prehistories (Max Planck; Jena, Germany)	Podium	Invited speaker
2016	Human Ecological Dynamics Workshop (Taos, NM)	Podium	Invited speaker
2015	Natural History of Madagascar (Bruce Museum; Greenwich, CT)	Podium	Invited speaker
2015	American Assn of Physical Anthropologists (St. Louis, MO)	Podium	
2014	International Primatological Society (Hanoi, Vietnam)	Podium	Invited speaker
2014	American Assn of Physical Anthropologists (Calgary, Canada)	Podium	
2014	Application of Genomics to Anthropol. Res. (San Antonio, TX)	Podium	Invited speaker
2013	American Assn of Physical Anthropologists (Knoxville, TN)	Podium	
2012	International Primatological Society (Cancun, MX)	Podium	Invited speaker
2012	Food Oral Processing: Physics, Physiology (Beaune, France)	Podium	Plenary talk
2012	American Assn of Physical Anthropologists (Portland, OR)	Podium	
2010	Society for Molecular Biology & Evolution (Lyon, France)	Poster	
2010	American Assn of Physical Anthropologists (Albuquerque, NM)	Podium	Invited speaker
2009	American Assn of Physical Anthropologists (Chicago, IL)	Podium	Invited speaker
2009	Wellcome Trust – Genomic Disorders (Hinxton, UK)	Podium	Invited speaker
2008	British Society of Human Genetics (York, UK)	Podium	Plenary talk
2008	Society for Molecular Biology & Evolution (Barcelona, Spain)	Podium	
2007	American Assn of Human Genetics (San Diego, CA)	Podium	

2007	Intl Mtg Human Genome Variation (Barcelona, Spain)	Podium
2007	International Congress Prosimians (Ithala, S. Africa)	Podium
2007	American Assn of Physical Anthropologists (Philadelphia, PA)	Podium
2006	Society for Molecular Biology & Evolution (Tempe, AZ)	Podium
2006	American Assn of Physical Anthropologists (Anchorage, AK)	Podium
2005	American Assn of Physical Anthropologists (Milwaukee, WI)	Podium Student prize

### STUDENT AND POSTDOC ADVISING (PRIMARY ADVISOR)

Years	Name	Type	Program
2019-	Natalia Grube	Ph.D student	Biology
2019-	Emily Gagne	Ph.D. student	Ecology
2018-	Ebony Creswell <sup>1</sup>	Ph.D. student	Anthropology
2018-	Mariah Elser	Undergrad honors	Biological Anthropology
2018-	Diego Hernandez	Ph.D. student	Anthropology
2017-	Kathleen Grogan <sup>2</sup>	Postdoc	Anthropology and Biology
2017-	Margarita Hernandez <sup>3</sup>	Ph.D. student	Anthropology
2016-	Stephanie Marciniak	Postdoc	Anthropology
2016-	Audrey Arner	Undergrad honors	Biology & BioAnth; Millennium Scholar
2014-	Alexis Sullivan <sup>4</sup>	Ph.D. student	Biology
2014-	David Villalta <sup>4</sup>	Ph.D. student	Ecology (on leave 2018- )
2013-2020	Richard Bankoff	Ph.D. student	Anthropology
2016-2019	Christina Bergey <sup>2,5</sup>	Postdoc	Anthropology and Biology
2017-2019	Katie Hickman	Undergraduate	Biology
2018-2019	Sai Ankith Reddy	M.S. student	Bioinformatics & Genomics
2015-2017	Monica Guardado	Undergraduate	Biology
2015-2017	Angela Battaglia	Undergrad honors	Biology
2015-2016	Abby Koenig	Undergraduate	Immunology & Infect Disease; Statistics
2014-2016	Baily Hohman	Undergraduate	Biotechnology
2013-2016	Maya Evanitsky <sup>6</sup>	Undergrad honors	Biochemistry and Molecular Biology
2014-2016	Jacob Cohen	Undergrad honors	Biology
2014-2016	Kyle Hilliard	Undergrad honors	Wildlife and Fisheries Science
2013-2015	Stephen Johnson	Ph.D. student	Anthropology
2014-2015	Adrijana Vukelic	Undergraduate	Biology
2012-2014	Logan Kistler <sup>7</sup>	Postdoc	Anthropology
2013-2014	Michael Jerjos	Undergraduate	Biology
2011-2014	Katharine Thompson <sup>8</sup>	Undergrad honors	Anthropology; Comm., Envir. & Dev.
2012-2014	Rebecca Coleman	M.A. student	Anthropology
2012-2013	Jason Hodgson <sup>9</sup>	Postdoc	Anthropology

#### Notes:

<sup>1</sup> Ebony Creswell received the NSF Graduate Research Fellowship in 2018.

<sup>2</sup> Katie Grogan and Christina Bergey both received NIH NRSA Postdoctoral Fellowships (F32) in 2017.

<sup>3</sup> Maggie Hernandez received the NSF Graduate Research Fellowship in 2017.

<sup>4</sup> Alexis Sullivan and David Villalta both received NSF Graduate Research Fellowships in 2016.

<sup>5</sup> Christina Bergey accepted a tenure track faculty position offer from Rutgers University in the Department of Genetics (and affiliation with Anthropology) starting January 2020.

<sup>6</sup> Maya spearheaded successful funding, research, and outreach efforts for our lab's Nittany Lion Genome (ancient DNA) project. She is now a PhD student at Duke University.

<sup>7</sup> Logan Kistler was awarded a five-year National Environment Research Council (NERC) Independent Fellowship in 2014. He was hired in 2017 as a Curator (tenure track equivalent) in the Department of Anthropology at the Smithsonian National Museum of Natural History.



- <sup>8</sup> Kate Thompson received an American Society of Primatologists grant for her honors thesis research on aye-aye foraging ecology in Madagascar, and an NSF Graduate Research Fellowship in 2015. She is now a PhD student at Stony Brook University.
- <sup>9</sup> Jason Hodgson accepted a tenure track position at Imperial College London in 2013.

### STUDENT AND POSTDOC ADVISING (CO-ADVISOR)

Years	Name	Type	Program
2015-	Heritiana Randrianatoandro	Ph.D. student	University of Antananarivo <sup>10</sup>
2014-	Ziyu (Raining) Wang <sup>11</sup>	Ph.D. student	Anthropology
2017-2019	Kathryn Turner <sup>12</sup>	Postdoc	Biology (Eberly Research Fellow)
2015-2019	Rindra Rakotoarivony	Ph.D. student	University of Antananarivo <sup>11</sup>

#### Notes:

- <sup>10</sup> Department of Anthropology & Sustainable Development, University of Antananarivo, Madagascar. Both Rindra and Heritiana visited our lab at Penn State for one year of training/ dissertation research.
- <sup>11</sup> Primary advisor is George Milner; Raining received the NSF Graduate Research Fellowship in 2015.
- <sup>12</sup> Kathryn received a Penn State Eberly Fellowship for mentored independent research; her other co-mentor is Jesse Lasky. She began a tenure track faculty position at Idaho State University in Fall 2019.

### COURSES INSTRUCTED

Title	Course #	Semester	Level	Credits	Enrollment
Bioinformatics & Genomics Colloquium	BGEN 589	Fa2019	G	2	19
Proposal Writing	ANTH 509	Fa2019	G	3	6
Critical Analysis Bioinfor. & Genomics	MCIBS 541	Sp2018	G	1	8
Proposal Writing	ANTH 509	Fa2017	G	3	5
Human Genetics (honors)	ANTH/BIOL 460H	Fa2017	U	4	11
Human Genetics	ANTH/BIOL 460	Fa2017	U/G	3	100
Current Literature in Anthropology	ANTH 541	Fa2017	G	1	16
Critical Analysis Bioinfor. & Genomics	MCIBS 541	Sp2017	G	1	8
Proposal Writing	ANTH 509	Fa2016	G	3	8
Critical Analysis Bioinfor. & Genomics	MCIBS 541	Sp2016	G	1	11
Current Lit Biological Anthropology	ANTH 563	Sp2016	G	1	10
Human Genetics (honors)	ANTH/BIOL 460H	Fa2015	U	4	15
Human Genetics	ANTH/BIOL 460	Fa2015	U/G	3	100
Proposal Writing	ANTH 509	Fa2015	G	3	8
Current Lit Biological Anthropology	ANTH 563	Fa2015	G	1	10
Parasites & Human Evolution (honors)	ANTH/ENT 271H	Sp2015	U	3	15
Advances in Biol Anth Research	ANTH 572	Sp2015	G	3	6
Human Genetics (honors)	ANTH/BIOL 460H	Fa2014	U	4	15
Human Genetics	ANTH/BIOL 460	Fa2014	U/G	3	77
Current Lit Biological Anthropology	ANTH 563	Fa2014	G	1	9
Parasites & Human Evolution (honors)	ANTH 297H	Sp2014	U	3	17
Human Genetics	ANTH/BIOL 460	Sp2014	U/G	3	89
Parasites & Human Evolution (honors)	ANTH 297H	Sp2013	U	3	18
Human Culture & Parasites (ind. study)	ANTH 596	Sp2013	G	3	3
Human Genetics	ANTH/BIOL 460	Fa2012	U/G	3	69
Current Lit Biological Anthropology	ANTH 563	Sp2012	G	1	5
Human Genetics (honors)	ANTH/BIOL 460H	Sp2012	U	4	8
Human Genetics (co-taught)	ANTH/BIOL 460	Sp2012	U/G	3	76

## DISSERTATION COMMITTEE MEMBER (NON-CHAIR)

<u>Year Defended</u>	<u>Name</u>	<u>University</u>	<u>Department/ Program</u>
in process	Mehreen Mughal	Penn State University	Bioinformatics & Genomics
in process	Tina Lasisi	Penn State University	Anthropology
in process	Xiaoheng Cheng	Penn State University	Molec., Cell., & Integrative Biosci.
in process	Alexandre Harris	Penn State University	Molec., Cell., & Integrative Biosci.
in process	Raining Wang	Penn State University	Anthropology
2020	Richard George	Penn State University	Anthropology
2020	Kate Lesciotto	Penn State University	Anthropology
2019	Braulio Assis	Penn State University	Ecology
2019	Julie White	Penn State University	Anthropology
2019	George Lohay	Penn State University	Biology
2019	Elise Lauterbur	Stony Brook University	Ecology & Evolution
2019	Jen Tinsman	Columbia University	Ecology, Evolution, & Env. Biology
2018	William Miller	Penn State University	Ecology
2018	Kevin Flaherty	Penn State University	Anthropology
2018	Anna Basile	Penn State University	Biochemistry & Molecular Biology
2017	Megan Aylward	University of Calgary	Anthropology
2017	Kelsey Kjosness	Penn State University	Anthropology
2016	Arslan Zaidi	Penn State University	Genetics
2015	Drew Wham	Penn State University	Biology
2015	Molly Hall	Penn State University	Biochemistry & Molecular Biology
2014	Jennifer Boulay	Penn State University	Biology
2014	Oscar Bedoya-Reina	Penn State University	Bioinformatics & Genomics
2013	Luca Pozzi	New York University	Anthropology

## ACADEMIC HONORS AND AWARDS

2018	Kavli Fellow, Kavli Frontiers of Science Program, National Academy of Sciences
2017-2019	Harry J. and Elissa M. Sichi Early Career Professor of Anthropology, Penn State University
2016-2021	National Science Foundation Faculty Early Career Development (CAREER) Award
2008-2011	National Research Service Award Postdoctoral Fellowship, National Institutes of Health
2007-2008	Dissertation Fellowship Award, Division of Graduate Studies, Arizona State University
2006	Donald H. Morris Award for Outstanding Doctoral Student in Physical Anthropology, School of Human Evolution and Social Change, Arizona State University
2005	Juan Comas Prize, podium presentation, American Association of Physical Anthropologists
1999	Most Outstanding Senior Award, Department of Anthropology, Wake Forest University

## PRIMARY FIELDWORK EXPERIENCE

2009-2019	Uganda (Bwindi Impenetrable Forest National Park). Batwa rainforest hunter-gatherer evolutionary ecology and population genomics.
2011-2016	Madagascar (various locations). Extant lemur ecology and population genomics; human population genomics; subfossil lemur sampling for ancient DNA analysis.
2015	Peru (Lima and rural surrounds). <i>Taenia solium</i> tapeworm cyst heat stress response functional genomics as proxy for the evolution of hominin food cooking behavior.
2005-2009	Costa Rica, Malaysia, Hong Kong, Philippines. Various shorter-term fieldwork projects with human rainforest hunter-gatherers and non-human primates.

## MAJOR UNIVERSITY AND PROFESSIONAL SERVICE

Editor:	Senior Editor, <i>eLife</i> (2020 – present)
	Associate Editor, <i>Evolutionary Anthropology</i> (2017 – present).
	Board of Reviewing Editors, <i>eLife</i> (2016 – 2020).

- Editor: Special issue: Ancient DNA and Human Evolution. Co-guest editors: **Perry GH** & Orlando L (2015); ***Journal of Human Evolution*** 79:1-158.
- Member: Steering Committee, The Ecology Institute, Penn State University (2014 – 2018).  
Coordinating Committee, The Institute of CyberScience, Penn State (2017 – 2018).
- Member: Executive Council, American Association of Anthropological Genetics (2015 – 2017).  
Elections Committee, American Association of Anthropological Genetics (2012 – 2015).
- Member: Workgroup on Responsible ancient DNA Research, American Society of Human Genetics (2018 – 2019).
- Member: Digital Data Management for a New Generation, American Anthropological Association (2015 – 2016); created data management & sharing training for biological anthropology.
- Reviewer: *eLife* (85), *Molecular Biology and Evolution* (11), *PLoS Genetics* (9), *Molecular Ecology* (7), *Proceedings of the National Academy of Sciences USA* (7), *American Journal of Primatology* (7), *Journal of Human Evolution* (5), *American Journal of Physical Anthropology* (5), *PLoS ONE* (5), *Evolutionary Anthropology* (4), *American Journal of Human Genetics* (3), *Genome Research* (3), *Nature Communications* (3), *Human Biology* (3), *Proceedings of the Royal Society B* (3), *Genome Biology and Evolution* (3), *International Journal of Primatology* (3), *Biology Letters* (2), *Science* (2), *Current Biology* (2), *European Journal of Human Genetics* (2), *BioEssays* (2), *BMC Evolutionary Biology* (2), *Genome Biology* (1), *Nature Reviews Genetics* (1), *Trends in Parasitology* (1), *Scientific Reports* (1), *Biological Journal of the Linnean Society* (1), *Annals of Human Genetics* (1), *Folia Primatologica* (1), *Molecular Ecology Resources* (1), *Conservation Genetics Resources* (1), *American Naturalist* (1), *International Journal of Osteoarchaeology* (1), *Gene* (1), *Evolutionary Applications* (1), *American Antiquity* (1), *Open Quaternary* (1), *PeerJ* (1), *Theoretical Biology and Medical Modeling* (1), *ZooKeys* (1), *Caryologia* (1), *Institute for Laboratory Animal Research Journal* (1), *Molecular Phylogenetics and Evolution* (1), *Evolution, Medicine, and Public Health* (1).
- Reviewer: Kerns Verlag (2), Cambridge University Press (1), Johns Hopkins University Press (1), Garland Science (1).
- Reviewer: National Science Foundation (87), L.S.B. Leakey Foundation Research Grants (15), American Association of Physical Anthropologists Professional Development Grants (10), The Wellcome Trust (1), Natural Sciences and Engineering Research Council of Canada (1), Social Sciences and Humanities Research Council of Canada (1), Templeton Foundation (1), National Fund for Scientific and Technological Development Research Grants, FONDECYT, Chile (1), Austrian Science Fund (1), BBSRC: Biotechnology & Biological Sciences Research Council (1), Royal Society of New Zealand Marsden Fund (1), Rufford Foundation (1).
- Reviewer: (of tenure cases) University of Zurich (1), Stony Brook University (1), University of Massachusetts Amherst (1).

### **PROFESSIONAL MEMBERSHIPS (ACTIVE PARTICIPATION)**

American Association for the Advancement of Science (AAAS)  
 American Association of Physical Anthropologists (AAPA)  
 American Association of Anthropological Geneticists (AAAG)  
 Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)