GENERAL INFORMATION

Departments of Anthropology and Biology
Pennsylvania State University
219 Susan Welch Liberal Arts Building
University Park, PA 16802

E-mail: ghp3@psu.edu; grgperry@boisei.com
Web: anthgenomicslab.com; boisei.com
LinkedIn: grgperry

EDUCATION / TRAINING

Institution	Dates	Area	Degree	Advisor
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	Peridoctoral	Charles Lee
Arizona State University	2003-2005	Anthropology	M.A.	Anne Stone
Wake Forest University	1995-1999	Anthropology	B.A.	David Weaver

EMPLOYMENT HISTORY

2025- President and Founder, *boisei* labs llc venture studio

2023- Professor, Departments of Anthropology and Biology, Penn State University
The Huck Institutes of the Life Sciences, Penn State University

2019-2023 Chair, Bioinformatics & Genomics Graduate Program, Penn State University

2017-2023 Associate Professor, Departments of Anthropology and Biology, 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

1999-2002 Technology business management Analyst (1999-00) and Consultant (2000-02), Accenture

CURRENT ACADEMIC SCHOLARSHIP FOCUS AREAS

Applied and impact anthropology

Human evolutionary medicine

Human impacts on non-human evolutionary biology

PUBLICATIONS (Postdoc & PhD trainees, Undergraduate trainees†)

Submitted González-Pech RA, Howe C, Lizcano-Sandoval LD, Eisenhofer-Philipona RA, Marciniak S, Roitman S, Marulanda-Gómez ÁM, Rodríguez-Ramírez A, **Perry GH**, Weyrich L, Lóopez-Victoria M, Cole JE, & Medina M, A paleogenomic approach to reconstruct historical responses of coral reefs to anthropogenic change. ***bioRxiv*** preprint https://doi.org/10.1101/2024.09.02.610915

Submitted Breton G, Sjödin P, Zervakis PI, Laurent R, Froment A, Sjöstrand AE, Hewlett BS, Barreiro LB, **Perry GH**, Soodyall H, Heyer E, Schlebusch CM, Jakobsson M, & Verdu P, Ancient tree-topologies and gene-flow processes among human lineages in Africa. ***bioRxiv*** preprint https://doi.org/10.1101/2024.07.15.603519

Submitted Hernandez M & **Perry GH**, Latiné immigrant heterogeneity: Striking health differences among Cuban refugee/migration waves to the United States. ***medRxiv*** preprint https://doi.org/10.1101/2024.04.17.24305856

2025 Friant S, Mistrick M, Luis AD, Harden C, Simons D, Fichet-Calvet E, Gibb R, Grube N, Henttonen H, Imirzian N, Moses L, **Perry GH**, Redding D, Stenseth N, Vandegrift K, Lloyd

Smith JO, Bjornstad ON, Dobson A, & Hudson PJ, Reducing the threats of rodent-borne diseases requires understanding and leveraging three key pillars: Ecology, synanthropy, and rodentation. ***Lancet Planetary Health*** 9:101300.

2025 Lopez L, Lang P, Marciniak S, Kistler L, Lattore S, Haile A, Vasquez Cerda E, Gamba D, Xu Y, Woods P, Ysfiru M, Kerby J, McKay JK, Årgen J, Wondimu T, Bulafu C, **Perry GH**, Burbano H, & Lasky JR, Museum genomics reveals temporal genetic stasis and global genetic diversity in *Arabidopsis thaliana*. ***Molecular Ecology*** 34:e70081.

2025 Assis BA, Sullivan AP, Marciniak S, Bergey CM, Garcia V, Szpiech ZA, Langkilde T, & **Perry GH**, Genomic signatures of adaptation in native lizards exposed to human-introduced fire ants. ***Nature Communications*** 16:89.

2025 Orkin JD, Kuderna L, Hermosilla N, Fontsere C, Aylward A, Janiak M, Andriaholinirina N, Balaresque P, Blair ME, Fausser J-L, Gut I, Gut M, Hahn MW, Harris RA, Horvath J, Keyser C, Kitchener AC, Lizano E, Merker S, Nadler T, **Perry GH**, Rabarivola C, Raveendran M, Roos C, Wu DD, Zaramody A, Zhang G, Pozzi L, Rogers J, Kai-How Farh K, & Marques Bonet T, Ecological and anthropogenic effects on the genomic diversity of lemurs in Madagascar. ***Nature Ecology and Evolution*** 9:42-56.

2023 Lea AJ, Clark AG, Dahl AW, Devinsky O, Garcia AR, Golden CD, Kamau J, Kraft TS, Lim YAL, Martins DJ, Mogoi D, Pajukanta P, **Perry GH**, Pontzer H, Trumble BC, Urlacher SS, Venkataraman VV, Wallace IJ, Gurven M, Lieberman DE, & Ayroles JF, Applying an evolutionary mismatch framework to understand disease susceptibility. ***PLoS Biology*** 21: e3002311.

2023 Veilleux CC, Garrett EV, Pajic P, Saitou M, Dominy NJ, **Perry GH**, Gokcumen O, & Melin AD, Human subsistence and signatures of selection on chemosensory genes. ***Communications Biology*** 6:683.

2022 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. ***American Journal of Biological Anthropology*** 178:385-398.

2022 Marciniak S, Bergey CM, Silva AM, Hałuszko A, Furmanek M, Veselka B, Veleminksy P, Vercellotti G, Wahl J, Zarina G, Longhi C, Kolář J, Garrido-Pena R, Flores-Fernández R, Herrero-Corral AM, Simalcsik A, Müller W, Sheridan A, Miliauskienė Ž, Jankauskas R, Moiseyev V, Köhler K, Király Á, Gamarra B, Cheronet O, Szeverenyi V, Kiss V, Szeniczey T, Kiss K, Zoffmann Z, Koós J, Hellebrandt M, Maier RM, Domboróczki L, Virag C, Novak M, Reich D, Hajdu T, von Cramon-Taubadel N, Pinhasi R, & **Perry GH**, An integrative skeletal and paleogenomic analysis of stature variation suggests relatively reduced health for early European farmers. ***Proceedings of the National Academy of Sciences USA*** 119:e2106743119.

2021 **Perry GH**, Evolutionary medicine. ***eLife*** 10:e69398.

2021 Marciniak S, Mughal MR, Godfrey LR, Bankoff RJ, Randrianatoandro H, Crowley BE, Bergey CM, Muldoon KM, Randrianasy J, Raharivololona BM, Schuster SC, Malhi RS, Yoder AD, Louis EE, Kistler L, & **Perry GH**, Evolutionary and phylogenetic insights from a nuclear genome sequence of the extinct, giant, 'subfossil' koala lemur *Megaladapis edwardsi*. ***Proceedings of the National Academy of Sciences, USA*** 118:e2022117118.

2021 Sullivan AP, Marciniak S, O'Dea A, Wake TA, & **Perry GH**, Modern, archaeological, and paleontological DNA analysis of a human-harvested marine gastropod (*Strombus pugilis*) from Caribbean Panama. ***Molecular Ecology Resources*** 21:1517-1528.

2021 Arner AM†, Grogan KE, Grabowski M, Reyes-Centeno H, & **Perry GH**, Patterns of recent natural selection on genetic loci associated with sexually differentiated human body size and shape phenotypes. ***PLoS Genetics*** 17:e1009562.

2021 Hernandez M & **Perry GH**, Scanning the human genome for 'signatures' of positive selection: Transformative opportunities and ethical obligations. ***Evolutionary Anthropology*** 30:113-121.

2021 Grube N, Garcia HH, & **Perry GH**, Human diet evolution: Meat, fire, and tapeworms. ***Frontiers for Young Minds*** 9:555342.

2021 Orkin JD, Montague MJ, Tejada-Martinez D, de Manuel M, del Campo J, Di Fiore A, Fontsere C, Hodgson J, Janiak MC, Kuderna LF, Lizano E, Niimura Y, **Perry GH**, Tang J, Warren WC, de Magalhães JP, Kawamura S, Marques-Bonet T, Krawetz R, & Melin AD, The genomics of ecological flexibility, large brains, and long lives in capuchin monkeys revealed with fecalFACS. ***Proceedings of the National Academy of Sciences, USA*** 118: e2010632118.

2021 Westfall AK, Telemeco RS, Grizante MB, Waits DS, Clark AD, Simpson DY, Klabacka RL, Sullivan AP, **Perry GH**, Oaks JR, Sears MW, Cox CL, Cox RM, Gifford ME, John-Alder HB, Langkilde T, Angiletta Jr. MJ, Leaché AD, Tollis MA, Kusumi K, & Schwartz TS, A chromosome-level genome assembly for the eastern fence lizard (*Sceloporus undulatus*), a reptile model for physiological and evolutionary ecology. ***GigaScience*** 10:giab066.

2020 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. ***Royal Society Open Science*** 7:201206.

2020 Grogan KE & **Perry GH**, Studying human and non-human primate evolutionary biology with powerful *in vitro* and *in vivo* functional genomic tools. ***Evolutionary Anthropology*** 29:143-158.

2020 **Perry GH**, How human behavior can impact the evolution of genetically-mediated behavior in wild non-human species. ***Journal of Comparative Physiology A*** 206:337-342.

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, Nsobya 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, iiSNP, and mitochondrial DNA typing systems. ***International Journal of Legal Medicine*** 133:1369-80.

2018 Bergey CM, Lopez M, Harrison GF, Patin E, Cohen J†, 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 ($\delta^{15}N$) 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†, Cohen J†, 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†, Hohman B†, 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†, 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, MacIsaac 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†, Lee AS†, Gutiérrez-Arcelus M†, 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†, **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†, Gutiérrez-Arcelus M†, **Perry GH**, Vallender EJ, Johnson WE, Miller GM, Korbel 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, Klanderman 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†, Lee AS†, Fiegler H, Redon R, Werner J, Villanea FA†, 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

CURRENT RESEARCH SUPPORT

2025-2028 PI: Medina M; Co-PIs: Weyrich LS, **Perry GH**, Cole JE. DEB-2449251. Ancient DNA approaches to reconstructenvironmental impacts on coral reefs, $1,867,914 (to Penn State: $432,102; to Perry: $172,841). National Science Foundation – Biodiversity on a Changing Planet, Division of Environmental Biology.

2024-2027 PIs: **Perry GH**, Hubbe M, Cheverko C, Steadman DW; Co-PIs: Llamas B, French KD. BCS-2341330. Advancing human epigenetic age estimation methods for archaeological and forensic research, $600,000 (to Penn State/ Perry: $394,032). National Science Foundation – Biological Anthropology; co-funding from the National Institutes of Justice.

PRIOR RESEARCH SUPPORT

2021-2024 PIs: Cooke S, Crowley B, **Perry GH**; Co-PI: Bloch JI. EAR-2047819. Integrative ecological perspectives on extinction processes – a multi-proxy case study of Hispaniolan subfossil and extant rodents, $602,716 (to Penn State/ Perry: $140,941). National Science Foundation – Sedimentary Geology and Paleobiology.

2016-2021 PI: **Perry GH**; Co-PI: Barreiro LB. R01-GM115656. Hunter-gatherer vs. agriculturalist growth and immune system functional genomics, $1,507,830. National Institutes of Health – National Institute of General Medical Sciences.

2016-2021 PI: **Perry GH**. BCS-1554834. CAREER: An integrative genomic and biodemographic analysis of prehistoric human-environment interactions in an island ecosystem, with bioinformatics capacity development, $465,123. National Science Foundation – Biological Anthropology, and Office of International Science and Engineering.

2017-2018 PI: **Perry GH**; Co-PI: Freeman KH, Culleton B, Kennett DJ. Biogeochemical, isotopic, and paleo-metagenomic interrogation of ecosystem change in Southwestern Madagascar. $25,000. Penn State Institutes of Energy and the Environment – Seed Grant Program.

2015-2017 PI: **Perry GH**; Co-PI: Garcia HH. Hominin dietary evolution: A tapeworm parasite proxy study of meat eating and food cooking behaviors, $34,156. Wenner-Gren Foundation – International Collaborative Research Grant.

2013-2017 PI: **Perry GH**. BCS-1317163. Comparative and population genomic studies of Madagascar's extinct subfossil lemurs, $292,833. National Science Foundation – Biological Anthropology.

2015-2017 PI: **Perry GH**. Sequencing the Nittany Lion Genome, $12,175. USeed crowd funding.

2014-2015 PI: Louis EE; Collaborator: **Perry GH**. Madagascar Biodiversity Project – Conservation Genetics and Community Development, $450,000 (subaward to Perry: $60,000 for extinct lemur nuclear genome sequencing). The Ahmanson Foundation.

2008-2012 PI: Lee C; Co-PIs: Gilad Y, Stone AC. R01-GM081533. Characterization and evolution of copy number variation among primates, $1,600,413. National Institutes of Health (I conceived and wrote this grant largely independently, but as a grad student could not be a PI).

2008-2011 PI: **Perry GH**. F32-GM085998. Studying the evolution of gene regulation at the protein level in primates, National Research Service Award, $141,318. National Institutes of Health.

2006-2007 PI: **Perry GH**. The evolutionary significance of copy number variation on the human and chimpanzee sex chromosomes, $24,384. Wenner-Gren Foundation.

2006-2007 PI: **Perry GH**. The evolutionary significance of human and chimpanzee copy number variation, $13,500. L.S.B. Leakey Foundation.

2005-2006 PI: Dominy NJ, Co-PIs: **Perry GH**, Stone AC. Functional significance of amylase gene duplications in human evolution, $12,201. L.S.B. Leakey Foundation.

INVITED SEMINARS

Year	University	Department or Institute
2026	Dartmouth College (Hanover, NH)	Anthropology
2024	Max Planck Institute (Jena, Germany)	Geoanthropology
2024	University of Minnesota (Minneapolis, MN)	Anthropology
2023	University of Massachusetts (Amherst, MA)	Organismal and Evolutionary Biology
2023	Max Planck Institute (Leipzig, Germany)	Evolutionary Anthropology
2021	University of California, Davis (Davis, CA)	Ecology & Evolution
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; *Distinguished Lecture*
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; *Student-invited speaker*
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; *Student-invited plenary speaker*
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)	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

Date	Meeting (Location)	Type	Notes
2026	Applied Evolution (University Park, PA)	Panel	Invited panelist
2023	Phenotype-genotype interactions (Tübingen, Germany)	Podium	Invited speaker
2023	Ancient trade and primate lifeways (Konstanz, Germany)	Podium	Invited speaker
2023	Rodent-borne zoonotic diseases (University Park, PA)	Podium	Invited speaker
2022	Conference on Hunting & Gathering Societies (Dublin, Ireland)	Podium	Invited speaker
2022	American Assn of Biological Anthropologists (Denver, CO)	Podium	Invited symposium
2021	American Assn of Physical Anthropologists (virtual)	Podium	Invited symposium
2021	The Evol. Mismatch Hypothesis in the Genomics Era (virtual)	Podium	Invited
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, POSTDOC, & RESEARCH ASSOCIATE ADVISING (PRIMARY ADVISOR)

Years	Name	Type	Program
2025-	Daniela Collins	Undergrad honors	Anthropological Sciences and Spanish
2024-	Annette Mercedes[1]	Ph.D. student	Molecular, Cellular, & Integrative Biosci.
2024-	Jacqueline Fassbender	Undergrad honors	BS/MBA
2024-	Wyatt McCafferty	Undergraduate	Biology
2022-2026	Sara Gutierrez	M.S. student	Anthropology
2019-2026	Natalia Grube[2]	Ph.D. student	Biology
2021-2026	Laura Perez[3]	MD/Ph.D. student	Medicine/Anthropology
2023-2025	Kyle Smith	Ph.D. student	Anthropology
2022-2025	Laurel Moyse	M.S. student	Biology
2022-2025	Rachel Palkovitz[4]	Ph.D. student	Anthropology
2023-2025	An Nguyen	Undergraduate	Biochem. & Anthropology (Temple U.)
2023-2025	Addison Kasley	Undergraduate	Biological Anthropology
2022-2024	Lauren Heverly	Undergraduate	Biology
2017-2024	Margarita Hernandez[3,5]	Ph.D. student	Anthropology
2018-2023	Ebony Creswell[6]	Ph.D. student	Anthropology
2022-2023	Braulio Assis[7]	Postdoc	Anthropology
2021-2023	Carter Clinton	Postdoc	Anthropology and Biology
2021-2023	Riley Gallagher	Undergrad honors	Biology and Political Science
2018-2022	Diego Hernandez	Ph.D. student	Anthropology
2019-2022	Emily Gagne	M.S. student	Ecology
2020-2022	Anubhab Khan	Data analyst	Anthropology and Biology
2021-2022	Stephanie Marciniak	Research Asst. Prof.	Anthropology
2016-2021	Stephanie Marciniak	Postdoc	Anthropology
2018-2021	Mariah Elser	Undergrad honors	Biological Anthropology
2020-2021	Trinity Gill	Undergraduate	Biology
2020-2021	Matthew Miller	Research Asst. Prof.	Anthropology
2014-2020	Alexis Sullivan[8]	Ph.D. student	Biology
2014-2020	David Villalta[8]	Ph.D. student	Ecology
2017-2020	Kathleen Grogan[9,10]	Postdoc	Anthropology and Biology
2020-2021	Audrey Arner[11]	Technician/Analyst	NIH R01 50%, NSF CAREER 50%
2016-2020	Audrey Arner[11]	Undergrad honors	Biology & BioAnth; Millennium Scholar
2013-2020	Richard Bankoff	Ph.D. student	Anthropology
2016-2019	Christina Bergey[9,12]	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[13]	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[14]	Postdoc	Anthropology
2013-2014	Michael Jerjos	Undergraduate	Biology
2011-2014	Katharine Thompson[15]	Undergrad honors	Anthropology; Comm., Envir. & Dev.
2012-2014	Rebecca Coleman	M.A. student	Anthropology
2012-2013	Jason Hodgson[16]	Postdoc	Anthropology

Notes:

[1] Annette Mercedies was accepted to the NIH Physiological Adaptations to Stress (PAS) training grant (T32) program in 2025.

[2] Natalia Grube was accepted to the NIH Computation, Bioinformatics, & Statistics (CBIOS) training grant (T32) program in 2020.

[3] I co-advised both Laura Perez and Maggie Hernandez with Mary Shenk.

[4] Rachel started a tenure track faculty position in August 2025 in the School of Integrated Sciences at James Madison University.

[5] Maggie Hernandez received the NSF Graduate Research Fellowship in 2017, and the NIH Predoctoral to Postdoctoral Transition Fellowship for a Diverse Genomics Workforce (F99/K00) in 2022.

[6] Ebony Creswell received the NSF Graduate Research Fellowship in 2018.

[7] I became Braulio's primary advisor in early 2023; Tracy Langkilde was the primary advisor prior.

[8] Alexis Sullivan and David Villalta both received NSF Graduate Research Fellowships in 2016.

[9] Katie Grogan and Christina Bergey both received NIH NRSA Postdoctoral Fellowships (F32) in 2017.

[10] Kathleen Grogan started a tenure track faculty position at the University of Cincinnati in the Departments of Anthropology and Biology in August 2020.

[11] Audrey Arner received the NSF Graduate Research Fellowship in 2022. She is currently a PhD student at Vanderbilt University.

[12] Christina Bergey started a tenure track faculty position at Rutgers University in the Department of Genetics (and affiliation with Anthropology) in January 2020.

[13] Maya Evanitsky 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.

[14] 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.

[15] 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 completed her PhD at Stony Brook University.

[16] Jason Hodgson started a tenure track position at Imperial College London in the Department of Life Sciences in 2013.

STUDENT AND POSTDOC ADVISING (CO-ADVISOR)

Years	Name	Type	Program
2024-	Vanessa Garcia[17]	Ph.D. student	Bioinformatics and Genomics
2025-2026	Colin Howe[18]	Ph.D. student	Biology
2015-2022	Heritiana Randrianatoandro	Ph.D. student	University of Antananarivo[19]
2014-2021	Ziyu Raining Wang[20]	Ph.D. student	Anthropology
2017-2019	Kathryn Turner[21]	Postdoc	Biology (Eberly Research Fellow)
2015-2019	Rindra Rakotoarivony	Ph.D. student	University of Antananarivo[19]

Notes:

[17] Primary advisor is Christian Huber; Vanessa received the NSF Graduate Research Fellowship in 2024.

[18] I became Colin's co-advisor with Mónica Medina when Mónica moved to another institution.

[19] 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.

[20] Primary advisor was George Milner; Raining received the NSF Graduate Research Fellowship in 2015.

[21] Kathryn received a Penn State Eberly Fellowship for mentored independent research; her other co-mentor was Jesse Lasky. She started a tenure track faculty position at Idaho State University in the Department of Biological Sciences in August 2019.

COURSES INSTRUCTED

Title	Course #	Semester	Level	Credits	Enrollment
Principles of Human Evol Biology	ANTH 571	Sp2026	G	3	11
Biocultural Evolution (honors)	ANTH 40Q	Sp2025	U	3	20
Principles of Human Evol Biology	ANTH 571	Fa2024	G	3	8
Principles of Human Evol Biology	ANTH 571	Fa2023	G	3	8
Proposal Writing	ANTH 509	Sp2023	G	3	6
Critical Analysis Bioinfor. & Genomics	BGEN 597	Fa2022	G	1.5	10
Proposal Writing	ANTH 509	Sp2022	G	3	5
Critical Analysis Bioinfor. & Genomics	BGEN 597	Fa2021	G	1.5	12
Human Genetics	ANTH/BIOL 460	Fa2020	U/G	3	100
Critical Analysis Bioinfor. & Genomics	BGEN 597	Fa2020	G	1.5	14
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)

Year Defended	Name	University	Department/ Program
In process	Kevin Palmisano	Penn State University	Anthropology
In process	Juliana Simas Barbosa	Penn State University	Bioinformatics & Genomics
In process	Mingzuyu Pan	Penn State University	Bioinformatics & Genomics
In process	Abigail Sequeira	Penn State University	Biology
In process	Alejandro Ortigas-Vasquez	Penn State University	Bioinformatics & Genomics
In process	Christine Ta	Penn State University	Anthropology
In process	Ana Victoria Leon Apodaca	Penn State University	Bioinformatics & Genomics
in process	Xiaoyi Hou	Penn State University	Molec., Cell., & Integrative Biosci.
2026	Troy LaPolice	Penn State University	Bioinformatics & Genomics

2025	Stephanie Szarmach	Penn State University	Biology
2025	Bridget Chak	University of Chicago	Genetics, Genomics, & Syst. Biol.
2025	Edmundo Torres-Gonzalez	Penn State University	Bioinformatics & Genomics
2024	Jinguo Huang	Penn State University	Bioinformatics & Genomics
2024	Sterling Wright	Penn State University	Anthropology
2024	GM Jonaid	Penn State University	Bioinformatics & Genomics
2023	Dynisty Wright	Penn State University	Biology
2022	Alexandra Blant	University of Manitoba	Biochemistry & Medical Genetics
2021	Tina Lasisi	Penn State University	Anthropology
2021	Jui-Shan Lin	Penn State University	Bioinformatics & Genomics (MS)
2021	Ziyu Raining Wang	Penn State University	Anthropology
2020	Rachel Cooper	Penn State University	Bioinformatics & Genomics (MS)
2020	Natalie Zesati	Penn State University	Bioinformatics & Genomics (MS)
2020	Pallavi Surana	Penn State University	Bioinformatics & Genomics (MS)
2020	Mehreen Mughal	Penn State University	Bioinformatics & Genomics
2020	Xiaoheng Cheng	Penn State University	Molec., Cell., & Integrative Biosci.
2020	Alexandre Harris	Penn State University	Molec., Cell., & Integrative Biosci.
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

MAJOR PROFESSIONAL ROLES AND SERVICE

Advisor: Novele, Inc. (2025 – present).
Electrogenos, Ltd. (2026 – present).

Director: Anthropology Graduate Studies, Penn State (2025 – present).

Chair: Anthropology Promotion and Tenure Committee, Penn State (2024 – present).
Anthropology Strategic & Recruitment Planning Committee, Penn State (2020 – 2021).

Member: Conflict of Interest Committee, Penn State University (2026 – present).
Penn State Venture Studio Development working group (2025 – present).
Nittany Angels, Penn State University (2026 – present).
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: Working group 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.

Editor: Associate Editor, ***Evolutionary Anthropology*** (2017 – present).
Senior Editor, ***eLife*** (2020 – 2024).
Board of Reviewing Editors, ***eLife*** (2016 – 2020).

Editor: Special issue: Evolutionary Medicine. Senior Editors: **Perry GH** & Soldati-Favre D; Reviewing Editors: Helaine S, Cooper VS, Rainey P, Rokas A, Kirchhoff F, Goldberg A, & Khan I (2020); ***eLife***.

Editor: Special issue: Ancient DNA and Human Evolution. Co-guest editors: **Perry GH** & Orlando L (2015); ***Journal of Human Evolution*** 79:1-158.

Reviewer: *eLife* (586), *Molecular Biology and Evolution* (12), *Proceedings of the National Academy of Sciences USA* (10), *PLoS Genetics* (9), *Molecular Ecology* (7), *American Journal of Primatology* (7), *Science* (5), *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), *Current Biology* (2), *Molecular Ecology Resources* (2), *European Journal of Human Genetics* (2), *BioEssays* (2), *BMC Evolutionary Biology* (2), *Genome Biology* (1), *Nature* (1), *Nature Reviews Genetics* (1), *Nature Human Behaviour* (1), *Trends in Parasitology* (1), *Scientific Reports* (1), *Biological Journal of the Linnean Society* (1), *Annals of Human Genetics* (1), *Folia Primatologica* (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), *PNAS Nexus* (1), *G3* (1).

Reviewer: Kerns Verlag (2), Cambridge University Press (1), Johns Hopkins University Press (1), Oxford University Press (1), Garland Science (1).

Reviewer: National Science Foundation (101), L.S.B. Leakey Foundation Research Grants (16), 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 external promotion and/or tenure cases) Harvard University (3), University of Zurich (1), Stony Brook University (1), University of Massachusetts Amherst (1), Hunter College, City University of New York (1), University of Oklahoma (1), Northwestern University (1), Boston University (1), University of Utah (1), University College London (1), Arizona State University (1), University of Missouri (1), University of Virginia (1), University of Iowa (1), University of California, San Diego (1), University of California, Los Angeles (1), University of Chicago (1), Leipzig University (1).

ACADEMIC HONORS AND AWARDS

2021 C.I. Noll Award for Excellence in Teaching, Eberly College of Science, Penn State University
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, 2022 Peru (Lima and rural surrounds). *Taenia solium* 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.