

TANVI P. HONAP

Location: Centreville, VA 20121

Email: tanvi.honap@ou.edu

EMPLOYMENT HISTORY

- 2017 - 2024 Research Assistant Professor, Department of Anthropology, University of Oklahoma (OU)
Laboratories of Molecular Anthropology and Microbiome Research, OU
- 2012 - 2017 Graduate Assistant, School of Life Sciences, Arizona State University (ASU)

EDUCATION

- 2012 - 2017 Doctor of Philosophy in Evolutionary Biology, Arizona State University, Tempe, USA
- 2010 - 2012 Master of Science in Virology, University of Pune, India
- 2007 - 2010 Bachelor of Science in Microbiology (minor in Industrial Microbiology), University of Pune, India

RESEARCH INTERESTS

Human microbiome; microbial genomics; pathogen evolution; ancient/degraded DNA; bioinformatics

SKILLS

LABORATORY

- Expert in recovery of biomolecules from degraded, archaeological, and low biomass material.
- Competent in working in Biosafety Level-2 and ISO Class 6 Clean Room conditions.
- Proficient in DNA and RNA extraction, quantification (Nanodrop, Qubit, TapeStation), ultrasonication (Covaris, QSonica), PCR and quantitative Real-Time PCR assays, and library preparation (dsDNA, ssDNA, cDNA, amplicon).
- Extensive experience with innovating in-solution hybridization capture approaches for target enrichment.
- Hands-on experience with Sanger and Illumina sequencing.

COMPUTATIONAL

- Expert in metagenomics analyses, genome reconstruction, assembly, annotation, phylogenetics, and Bayesian dating.
- Extensive experience working in Linux environment and using high-performance computing server systems.
- Proficient in scripting using Bash, R, and Python.
- Competent at using a wide range of command-line tools for analysis of genomic data (bcl2fastq, FastQC, fastp, AdapterRemoval, MetaPhlan, Kraken, QIIME, BWA, Bowtie, SAMTools, vcftools, bcftools, GATK, MEGAHIT, RAXML, IQ-TREE, TempEst, BEAST, etc.).
- Adept at using GUI-based software for data analysis and visualization (Geneious, MEGA, FigTree, Inkscape).
- Familiar with using containers (Singularity), version control (Git), and job schedulers (SLURM, SGE).

RESEARCH GRANTS

EXTERNAL

2022 - 2024 Hominid Dental Metagenomes for Pathogen Evolution Research. Training supplement to National Science Foundation BCS-2045308. Role: Co-PI (50%), Total: USD 75,108.

2021 - 2024 Hominid Dental Metagenomes for Pathogen Evolution Research. National Science Foundation BCS-2045308. Role: Co-PI (40%), Total: USD 422,196.

INTERNAL

2016 - 2017 Of monkeys and mycobacteria: a nonhuman primate connection to leprosy. Graduate Jumpstart Grant, Graduate and Professional Students Association, ASU. Role: PI (100%), Total: USD 500.

2014 - 2015 Investigating leprosy in nonhuman primates. Graduate Research Grant, Graduate and Professional Students Association, ASU. Role: PI (100%), Total: USD 1,950.

HONORS AND AWARDS

EXTERNAL

2024 Faculty Scholar, Increasing Diversity in Evolutionary Anthropological Sciences (IDEAS) Program, American Association of Biological Anthropologists (USD 250)

2017 Registration Award, Society for Molecular Biology and Evolution Annual Meeting (USD 320)

2016 Outstanding Student Podium Presentation in Anthropological Genetics award, American Association of Physical Anthropologists Annual Meeting (USD 200)

2015 Registration Award, Society for Molecular Biology and Evolution Annual Meeting (USD 320)

2010 University Grants Commission's Indira Gandhi Scholarship, India (INR 40,000)

2010 First Place, Horizon Intercollegiate Poster Presentation Competition, Pune, India

2007 Jamsheji Tata Trust Scholarship, Pune Intercollegiate Consortium Exploratory Program, India

INTERNAL

2017 Dissertation Completion Fellowship, School of Life Sciences, ASU (USD 11,595)

2017 Graduate & Professional Students Association (GPSA) Individual Travel Grant, ASU (USD 950)

2017 GPSA Interview Travel Grant, ASU (USD 550)

2016 Conference Travel Award, School of Life Sciences, ASU (USD 400)

2015 Conference Travel Award, School of Life Sciences, ASU (USD 400)

2015 Graduate College Travel Award, ASU (USD 500)

2015 GPSA Individual Travel Grant, ASU (USD 950)

2015 GPSA Individual Travel Grant, ASU (USD 588)

2014 Conference Travel Award, School of Life Sciences, ASU (USD 400)

2014 Graduate College Travel Award, ASU (USD 350)

PEER-REVIEWED PUBLICATIONS (total = 16)

* denotes co-first author, * denotes co-corresponding author

2024 Austin RM, **Honap TP**, Mann AE, Hübner A, DeGaglia CMS, Warinner C, Zuckerman MK, and Hofman CA. Metagenomic and paleopathological analyses of a historic documented collection explore ancient dental calculus as a diagnostic tool. Scientific Reports 14, 14720.

2023 **Honap TP**, Monroe CR, Johnson SJ, Jacobson DK, Abin CA, Austin RM, Sandberg P, Levine

- M, Sankaranarayanan K, and Lewis CM. Oral metagenomes from Native American Ancestors reveal distinct microbial lineages in the pre-contact era. American Journal of Biological Anthropology 182(4), 542–556.
- 2022 Haffner JJ, Katemauswa M, Kagone TS, Hossain E, Jacobson D, Flores K, Parab AR, Obregon-Tito AJ, Tito RY, Reyes LM, Troncoso-Corzo L, Guija-Poma E, Meda N, Carabin H, **Honap TP**, Sankaranarayanan K, Lewis CM, and McCall LI. Untargeted Fecal Metabolomic Analyses across an Industrialization Gradient Reveal Shared Metabolites and Impact of Industrialization on Fecal Microbiome-Metabolome Interactions. Msystems. e00710-22.
- 2022 Austin RA, Zuckerman MK, **Honap TP**, Lee H, Ward GK, Warinner C, Sankaranarayanan K, and Hofman CA. Remembering St. Louis Individual - Structural Violence and Acute Bacterial Infections in a Historical Anatomical Collection. Communications Biology 5(1), pp.1-10
- 2022 Vågane ÅJ*, **Honap TP****, Harkins KM, Rosenberg MS, Giffin K, Cárdenas-Arroyo F, Leguizamón LP, Arnett J, Buikstra JE, Herbig A, Krause J*, Stone AC*, and Bos KI*. Geographically dispersed zoonotic tuberculosis in pre-contact South American human populations. Nature Communications 13 (1): 1-12
- 2021 Jacobson DK, Moore KN, Gunderson CC, Rowland MR, Austin RM, **Honap TP**, Xu J, Warinner C, Sankaranarayanan K, and Lewis CM (2021). Shifts in gut and vaginal microbiomes are associated with cancer recurrence time in women with ovarian cancer. PeerJ 9:e11574.
- 2021 Jacobson DK, **Honap TP**, Ozga AT, Meda N, Kagone T, Carabin H, Spicer PG, Tito RY, Obregon-Tito A, Reyes LM, Troncoso-Corzo L, Guija-Poma E, Sankaranarayanan K, and Lewis CM (2021). Analysis of global human gut metagenomes shows that metabolic resilience potential for short-chain fatty acid production is strongly influenced by lifestyle. Scientific Reports 11:1724.
- 2020 Jacobson DK, **Honap TP**, Monroe C, Lund J, Houk B, Novotny A, Robin C, Marini E, and Lewis CM (2020). Functional diversity of microbial ecologies estimated from ancient human coprolites and dental calculus. Philosophical Transactions of the Royal Society B 375: 20190586.
- 2020 Borry M, Cordova B, Perri A, Wibowo M, **Honap TP**, Ko J, Yu J, Britton K, Flink LG, Power RC, Stuijts I, Garcia SD, Hofman CA, Hagan RW, Kagone TS, Meda N, Carabin H, Jacobson D, Reinhard K, Lewis CM, Kostic A, Jeong C, Herbig A, Hubner A, and Warinner C (2020). CoproID predicts the source of coprolites and paleofeces using microbiome composition and host DNA content. PeerJ 8:e9001
- 2020 **Honap TP**⁺, Sankaranarayanan K⁺, Schnorr S, Ozga AT, Warinner C, and Lewis CM (2020). Biogeographic study of human gut-associated crAssphage suggests impacts from industrialization and recent expansion. PLoS ONE 15(1): e0226930
- 2019 Schnorr SL, Hofman CA, Netshifhefhe SR, Duncan FD, **Honap TP**, Lesnik J, and Lewis CM (2019). Taxonomic features and comparisons of the gut microbiome from two edible fungus-farming termites (*Macrotermes falciger*, *M. natalensis*) harvested in the Vhembe district of Limpopo, South Africa. BMC Microbiology 19 (164).
- 2018 **Honap TP**^{*}, Pfister L-A, Housman G, Mills S, Tarara RP, Suzuki K, Cuozzo FP, Sauter ML, Rosenberg MS, and Stone AC^{*} (2018). *Mycobacterium leprae* genomes from naturally infected nonhuman primates. PLoS Neglected Tropical Diseases 12(1): e0006190
- 2017 Benjak A⁺, **Honap TP**⁺, Avanzi C, Becerril-Villanueva L, García I, Rojas-Espinosa O, Stone AC, and Cole ST (2017). Insights from the genome sequence of *Mycobacterium lepraemurium*: massive gene decay and reductive evolution. mBio 8:e01283-17

- 2016 Ozga AT, Nieves-Colón MA, **Honap TP**, Sankaranarayanan K, Hofman CA, Milner GR, Lewis CM, Stone AC, and Warinner C (2016). Successful enrichment and recovery of whole mitochondrial genomes from ancient human dental calculus. American Journal of Physical Anthropology 160: 220–228
- 2013 Alagarasu K, **Honap TP**, Damle IM, Mulay AP, Shah PS, and Cecilia D (2013). Polymorphisms in the Oligoadenylate Synthetase Gene Cluster and its Association with Clinical Outcomes of *Dengue Virus* Infection. Infection, Genetics, and Evolution 14:390-395
- 2012 Alagarasu K⁺, **Honap TP**⁺, Mulay AP, Bachal RV, Shah PS, and Cecilia D (2012). Association of vitamin D receptor gene polymorphisms with clinical outcomes of *Dengue virus* infection. Human Immunology 73(11):1194-1199

PODIUM PRESENTATIONS

INVITED TALKS

- 2024 **Honap TP**. Exploring oral microbial evolution in the context of European colonization of the Americas. Society for Molecular Biology and Evolution Annual Meeting, Puerto Vallarta, Mexico
- 2022 **Honap TP**, Vågene ÅJ, Harkins KM, Rosenberg MS, Giffin K, Cárdenas-Arroyo F, Leguizamón LP, Arnett J, Buikstra JE, Herbig A, Krause J, Bos KI, and Stone AC. Ancient *Mycobacterium pinnipedii* genomes recovered from non-coastal peoples from pre-contact era South America highlight the complexity of tuberculosis transmission in the past. International Congress on the Evolution and Paleoepidemiology of Tuberculosis (ICEPT-3). Virtual Meeting.
- 2021 **Honap TP**, Monroe C, Sandberg P, Austin R, Levine M, and Lewis CM. Reconstructing the genomes of the red complex of pathogens from ancient dental calculus samples from the North American Wichita (500-700 BP). Annual North American Meeting of the Paleopathology Association. Virtual Meeting.
- 2021 **Honap TP**. Genomic analysis of leprosy in naturally infected nonhuman primates. “Towards a One Health Approach to Study Leprosy”. Virtual Workshop hosted by the Lorentz Center.

SELECT CONTRIBUTED TALKS

- 2023 **Honap TP**, Johnson SJ, Lynch PA, Kennett DJ, Prufer KM, and Lewis CM. Oral metagenomes of ancestral Maya individuals from Belize reveal insights into strain diversity and evolutionary histories of oral microbes. American Association of Biological Anthropologists Annual Meeting, Reno, USA
- 2023 Johnson SJ, Monroe C, **Honap TP**, Leventhal A, Arellano MV, and Lewis CM. Oral microbiomes of ancestral Native American individuals reveal bacterial diversity in the pre-Colonial era. American Association of Biological Anthropologists Annual Meeting, Reno, USA
- 2023 Palacios HM, Neff NC, Ray EE, **Honap TP**, Kennett DJ, Prufer KM, and Lewis CM. Ancient metagenomics, stable isotope analysis, and archaeological contexts provide interdisciplinary insights into Classic Period Maya inequality in southern Belize. American Association of Biological Anthropologists Annual Meeting, Reno, USA
- 2022 **Honap TP**, Monroe CR, Johnson SJ, Sankaranarayanan K, Levine M, and Lewis CM. Oral microbial ecologies reconstructed from pre-colonial era Wichita ancestors from North America provide insights into the global “silent epidemic” of oral disease. American Association of Biological Anthropologists Annual Meeting, Denver, USA.
- 2022 Ozga AT, **Honap TP**, Lewis CM, and Stone AC. Whole genome capture of oral pathogenic

- bacteria from Great Ape dental calculus. American Association of Biological Anthropologists Annual Meeting, Denver, USA.
- 2022 Austin RA, Zuckerman MK, **Honap TP**, Lee H, Ward GK, Warinner C, Sankaranarayanan K, and Hofman CA. Interdisciplinary approaches provide insight into structural violence and acute bacterial infections in an individual from the Terry Collection. American Association of Biological Anthropologists Annual Meeting, Denver, USA.
- 2019 Kennedy J, **Honap TP**, Chavez S, Chavez S, and Sankaranarayanan K. Analysis of mitochondrial haplogroup variation and cranial modification at the archaeological site of Cundisa, Bolivia. American Association of Physical Anthropologists Annual Meeting, Cleveland, USA.
- 2019 Jacobson DK, Kagone TS, Meda N, Carabin H, **Honap TP**, Sankaranarayanan K, and Lewis CM. Gut microbiome community composition is significantly influenced by shared living space in rural agriculturalists from Burkina Faso. American Association of Physical Anthropologists Annual Meeting, Cleveland, USA.
- 2018 **Honap TP**, Vågene Å, Herbig A, Rosenberg MS, Buikstra JE, Bos KI, Krause J, and Stone AC. Pre-contact and historic era *Mycobacterium tuberculosis* complex genomes from the Americas. American Association of Physical Anthropologists Annual Meeting, Austin, USA.
- 2017 Stone AC, **Honap TP**, Vågene Å, Herbig A, Rosenberg M, Buikstra JE, Bos KI, and Krause J. Ancient *Mycobacterium tuberculosis* complex genomes from the Americas. International Society for Evolutionary Medicine and Public Health Annual Meeting, Groningen, Netherlands.
- 2017 **Honap TP**, Pfister LA, and Stone AC. Genomic analyses of *Mycobacterium leprae* strains from naturally infected nonhuman primates. American Association of Physical Anthropologists Annual Meeting, New Orleans, USA.
- 2016 **Honap TP**, Vågene A, Herbig A, Rosenberg MS, Buikstra JE, Bos KI, Krause J, and Stone AC. Genetic analyses of pre- and post-contact North American *Mycobacterium tuberculosis* complex strains. American Association of Physical Anthropologists Annual Meeting, Atlanta, USA.
- [Outstanding Podium Presentation in Anthropological Genetics award]**
- 2016 **Honap TP**. Ancient DNA analyses of New World tuberculosis strains. Graduate and Professional Students Association Interdisciplinary Research Symposium, Arizona State University, Tempe, USA.
- 2015 **Honap TP**. Analysis of a nonhuman primate *Mycobacterium leprae* strain: implications for zoonotic transmission of mycobacterial pathogens. Graduate and Professional Students Association Interdisciplinary Research Symposium, Arizona State University, Tempe, USA.

POSTER PRESENTATIONS

INVITED POSTERS

- 2014 **Honap TP**, Pfister LA, and Stone AC. The origins and evolution of *Mycobacterium leprae*. American Association of Physical Anthropologists Annual Meeting, Calgary, Canada.

SELECT CONTRIBUTED POSTERS

- 2024 Palacios HM, **Honap TP**, Kennett DJ, Prufer KM, and Lewis CM. Evaluating efficacy of single-vs double-stranded DNA library preparation strategies for ancient microbiome research. American Association of Biological Anthropologists Annual Meeting, Los Angeles, USA.
- 2024 **Honap TP**, Johnson SJ, Lynch PA, Kennett DJ, Prufer KM, and Lewis CM. Ancient oral

metagenomes from ancestral Maya reveal changes in taxonomic composition and functional potential associated with dietary transition. International Plant and Animal Genomes Meeting, San Diego, USA.

- 2022 Johnson SJ, **Honap TP**, Lynch PA, Kennett DJ, Prufer KM, and Lewis CM. Investigating the changes in oral microbial ecologies of ancestral Maya individuals from Belize accompanying shifts in subsistence patterns. American Association of Biological Anthropologists Annual Meeting, Denver, USA.
- 2019 Sankaranarayanan K⁺, **Honap TP**⁺, Schnorr S, Ozga AT, Warinner C, and Lewis CM. Biogeographic study of human gut associated crAssphage suggests impacts from industrialization and recent expansion. American Association of Physical Anthropologists Annual Meeting, Cleveland, USA.
- 2018 Kennedy J, **Honap TP**, Chavez S, Chavez S, and Sankaranarayanan K. Analysis of mitochondrial haplogroup variation and cranial modification at the archaeological site of Cundisa, Bolivia. Latin American Association for Biological Anthropology Annual Meeting, Puerto Rico.
- 2018 Wright S, Monroe C, Furlong M, Reeves M, **Honap TP**, Austin R, and Hofman CA. Exploring the Biological Heritage of Enslaved People at James Madison's Montpelier Through Ancient DNA Analysis. Society for American Archaeology Annual Meeting, Washington D.C., USA.
- 2017 **Honap TP**, Vågene Å, Herbig A, Rosenberg MS, Buikstra JE, Bos KI, Krause J, and Stone AC. Genomic analyses of ancient *Mycobacterium tuberculosis* complex strains from the Americas. Society for Molecular Biology and Evolution Annual Meeting, Austin, USA.
- 2017 Crane A, **Honap TP**, Goebel M, Stone AC, and Varsani A. Towards identifying *Mycobacterium pinnipedii* and viruses associated with Antarctic fur seals and Weddell seals. Society for Molecular Biology and Evolution Annual Meeting, Austin, USA.
- 2017 **Honap TP**, Vågene Å, Herbig A, Buikstra JE, Bos KI, Krause J, and Stone AC. Genomic analyses of ancient tuberculosis strains from the Americas. Plant and Animal Genomes Society Annual Meeting, San Diego, USA.
- 2016 Ozga AT, Nieves-Colón MA, **Honap TP**, Sankaranarayanan K, Hofman CA, Milner GR, Lewis CM, Stone AC, and Warinner C. Ancient dental calculus as a reservoir of whole human mitogenomes. American Association of Physical Anthropologists Annual Meeting, Atlanta, USA.
- 2015 **Honap TP**, Pfister LA, Erkenswick G, Watsa M, and Stone AC. Analysis of a nonhuman primate *Mycobacterium leprae* strain: implications for zoonotic transmission of mycobacterial pathogens. Society for Molecular Biology and Evolution Annual Meeting, Vienna, Austria.
- 2015 **Honap TP**, Housman G, Erkenswick G, Malukiewicz J, Boere V, Machado-Pereira L, Grativol AD, Ruiz-Miranda C, Silva I, Watsa M, and Stone AC. Investigating the presence of mycobacterial pathogens in New World primates. American Association of Physical Anthropologists Annual Meeting, St. Louis, USA.
- 2015 Nieves-Colón MA, Ozga AT, **Honap TP**, Pestle WJ, Warinner C, and Stone AC. Comparison of aDNA yields from calculus and tooth roots in pre-Columbian skeletal remains. American Association of Physical Anthropologists Annual Meeting, St. Louis, USA.
- 2010 **Honap TP**, Tamhankar MA, Bhalerao A, and Deshpande NM. Hydrocarbonclastic bioluminescent bacteria: A solution to hydrocarbon pollution. Horizon Intercollegiate Poster Presentation Competition, Pune, India. **[First Place]**

TECHNICAL REPORTS

- 2022 **Honap TP**, Monroe CR, and Lewis CM. Metagenomic sequencing of ancient dental calculus samples from Wichita Ancestors. Presented to the Executive Committee of The Wichita and Affiliated Tribes.
- 2020 Wright SL, Singleton R, Hughes K, Rayfield K, **Honap TP**, Dagtas N, Monroe CR, Wu S, Huang L, and Hofman CA. Sequencing dental calculus and dentin from Histria: Genetic analysis of dental calculus and teeth from Roman burial contexts 2nd-6th centuries CE.
- 2019 **Honap TP** and Lewis CM. Microbiome study of plaque samples from peri-implantitis patients using 16S rRNA-based amplicon sequencing.
- 2018 Lund J, Monroe CR, **Honap TP**, and Lewis CM. Metagenomic analysis of ancient dental calculus from Sardinia.
- 2018 **Honap TP**, Monroe CR, and Lewis CM. Metagenomics and Western Belize (MAWB) Project: Oral microbiomes of ancestral Maya individuals.

RESEARCH EXPERIENCE

- 2017 - Research Assistant Professor, Laboratories of Molecular Anthropology and Microbiome Research (LMAMR), University of Oklahoma. PI: Dr. Cecil Lewis
- Awarded National Science Foundation (NSF) grant “Hominid Dental Metagenomes for Pathogen Evolution Research” (NSF BCS-2045308; 40% co-PI; Total: \$422,196).
 - Co-led training program in metagenomics laboratory and computational workflows (funded by NSF supplement; 50% co-PI; Total: \$75,108).
 - Co-led seven collaborative research projects on oral microbiome evolution.
 - Managed projects focused on human microbiome and virome research.
 - Designed a suite of bioinformatics pipelines for analysis of metagenomic data (freely available on GitHub).
 - Served as Interim Laboratory Manager for LMAMR, a 35-personnel, multi-PI research group, for a 9-month period.
- 2012 - Ph.D. Student, Arizona State University, USA. PIs: Dr. Anne Stone and Dr. Michael Rosenberg
- 2017
- Dissertation: Tracing the Evolutionary Histories of Leprosy and Tuberculosis using Ancient DNA and Phylogenomics Methods.
 - Co-led a study on tuberculosis in archaeological human populations and reconstructed ancient microbial genomes from 1,000-year-old bone specimens.
 - Demonstrated a target enrichment approach to recover microbial genomes from degraded specimens, resulting in the first genomic study of *Mycobacterium leprae* from nonhuman primates.
 - Co-led a project to sequence and annotate the genome of *Mycobacterium lepraemurium*.
 - Served as Laboratory Manager for a 10-15 personnel Molecular Anthropology research group for 4 years. Duties involved developing Institutional Biosafety Committee disclosures, providing training related to laboratory safety and equipment usage, coordinating laboratory cleaning and maintenance, and purchasing reagents.
- 2011 - M.Sc. Student, Dengue Department, National Institute of Virology, Pune, India. PI: Dr.
- 2012 Kalichamy Alagarasu
- Thesis: Association of polymorphisms in the Vitamin D receptor and oligoadenylate synthetase

genes with clinical outcomes of *Dengue virus* infection.

- 2009 Intern, Quality Assurance and Quality Control Department, Mapro Foods Pvt. Ltd., Wai, India.
- 2007 - Undergraduate Researcher, Abasaheb Garware College, Pune, India.
- 2009 Project: Isolation and identification of bioluminescent bacteria and investigation of their hydrocarbon-clastic property. PI: Dr. Neelima Deshpande
- 2007 - Undergraduate Researcher, Pune Intercollegiate Consortium Exploratory Program, India.
- 2008 Project: Study of groundwater contamination due to municipal garbage dumping sites around Pune city, India. PI: Dr. Sanjay Kumbhar

TEACHING EXPERIENCE

- 2018 Directed Reading in Metagenomics (1 semester), Department of Anthropology, OU.
- 2012 - Graduate Teaching Assistant, School of Life Sciences, ASU.
- 2017 Courses: General Biology for Majors (2 semesters), Organic Evolution (2 semesters), Conceptual Approaches to Biology for Majors (1 semester), and Applied Genetics (1 semester).

MENTORING EXPERIENCE

- 2017 - Laboratories of Molecular Anthropology and Microbiome Research, OU
- Visiting faculty (total = 6): Dr. Carter Clinton, North Carolina State University (2023); Dr. Jennifer Raff, University of Kansas (2023); Dr. Graciela Cabana, University of Tennessee Knoxville (2023); Dr. Jada Benn Torres, Vanderbilt University (2022); Dr. Theodore Schurr, University of Pennsylvania (2022); Dr. Jennifer Kennedy, Central Michigan University (2018-2019).
 - Post-doctoral scholars (total = 5): Dr. Kristine Beaty, University of Kansas (2023); Dr. Raquel Fleskes, University of Connecticut (2022); Dr. Alexandra Emmons, Colorado State University (2019); Dr. Sharmily Khanam, OU (2018-2019); Dr. Sushila Arya, OU Health Science Center (2018-2019).
 - Ph.D. students (total = 10): Isabella Almeida de Oliveira, Federal University of Pará, Brazil (2023-); Lateefa Abel, University of Tennessee Knoxville (2023); Catherine McCormack, Vanderbilt University (2022); Alice Lee, OU (2022-); Mario Apata, ASU (2021-2022), Horvey Palacios, OU (2021-); Sarah Johnson, OU (2020-); Eva Granizo, Universidad del Pais Vasco, Spain (2021), David Jacobson, OU (2017-2020); Rita Austin, OU (2017-2019).
 - M.A. students (total = 2): Abigail Gamble, OU (2018-2020); Jacob Haffner, OU (2018-2019).
 - Undergraduate students (total = 4): Kendall Terry, OU (2022); Hima Patel, OU (2021); Saadia Naazir (2023-2024); Ahmed Hussain (2023-2024).
- 2012 - Laboratory of Dr. Anne C. Stone, Arizona State University (ASU)
- 2017
- Graduate students (total = 5): Adele Crane, ASU (2016-2017); Kelly Blevins (2016-2017); Angela Taravella, ASU (2016-2017); Stevie Winingear, ASU (2016-2017); Charlotte Till, ASU (2013-2014).
 - Undergraduate students (total = 4): Soleil Young, Syracuse University (2017); Katherine Skerry, ASU (2014-2016); Justin Lund, ASU (2013-2014); Christina Balentine, ASU (2013).

PROFESSIONAL SERVICE

REVIEWER

- 2021 - *Ad hoc* reviewer, Leakey Foundation.
- 2019 - Member of advisory panels (total = 6) and *ad hoc* reviewer, National Science Foundation.
- 2018 - *Cell*; *PNAS*; *Nature Microbiology*; *BMC Microbiology*; *International Journal of Paleopathology*; *PeerJ*; *F1000 Research*; *Molecular Biology and Evolution*; *Cell Reports*; *Philosophical Transactions of the Royal Society B*; *Science Advances*; *Evolution, Medicine, and Public Health*; *PLoS ONE*; *PLoS Neglected Tropical Diseases*; *GigaScience*

OTHER EXTERNAL SERVICE

- 2022 - Secretary-Treasurer, American Association of Anthropological Genetics
- 2019 - 2024 Website administrator, American Association of Anthropological Genetics (anthgen.org)

INTERNAL SERVICE

- 2016 Graduate student representative, faculty search committee, School of Life Sciences, ASU
- 2013 - 2017 Peer Reviewer, Graduate Research and Travel Grants, Graduate and Professional Students Association, ASU

PUBLIC OUTREACH

- 2013 - 2020 Volunteer/content writer for Ask-A-Biologist website, ASU (askabiologist.asu.edu)
- 2016 Genetics content writer for March Mammal Madness 2016
- 2013 Invited speaker, Department of Microbiology, Abasaheb Garware College, Pune, India.
“Career opportunities for Microbiology post-graduate students in India and abroad.”

LANGUAGE PROFICIENCY

Fluent in English, Marathi, and Hindi; beginner-level comprehension of German.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Association of Biological Anthropologists (AABA); American Association for Anthropological Genetics (AAAG); Society for Molecular Biology and Evolution (SMBE)

REFERENCES

- Dr. Cecil M. Lewis Jr.** Scientific Review Officer
(Former supervisor) Center for Scientific Review, National Institutes of Health (NIH)
6701 Rockledge Dr, Bethesda, MD 20817
E-mail: cecilmlewis@gmail.com
- Dr. Anne C. Stone** Regents' Professor
(Ph.D. advisor) School of Human Evolution and Social Change, Arizona State University
900 Cady Mall, Tempe, AZ 85281
E-mail: acstone@asu.edu
Phone: (+1)480-727-6310
- Dr. Krithivasan Sankaranarayanan** Research Scientist III
(Former colleague) Wadsworth Center, New York State Department of Health
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