CURRICULUM VITAE

Allison E. Mann, Ph.D.

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Academic Positions

Present Assistant Professor

Department of Anthropology, University of Wyoming, Laramie, WY

2020-2024 Postdoctoral Research Fellow

Department of Biological Sciences, Clemson University, Clemson, SC

Advisor: Dr. Vincent Richards

2019-2020 Postdoctoral Research Fellow

Department of Microbiology, Immunology, and Genetics, University of North Texas

Health Science Center, Fort Worth, TX Advisor: Dr. Michael Allen, Dr. John Planz

2018-2019 Postdoctoral Research Fellow

Department of Botany, University of British Columbia, Vancouver, BC

Advisor: Dr. Laura Wegener Parfrey

2016-2017 Scientific Associate

Department of Archaeogenetics. Max Planck Institute for the Science of Human History,

Jena, Germany

Advisor: Dr. Christina Warinner

Education

Anthropology, University of Oklahoma, May 2018 Ph.D.

Concentration: Human Health and Biology

Dissertation: Novel techniques for the description and interpretation of the modern

human gut and ancient human oral microbiome

Advisor: Dr. Cecil M. Lewis Jr.

M.A. Anthropology, University of Louisville, 2012

Concentration: Molecular Anthropology

Thesis: Y-chromosomal signatures of recent and ancient migrations in the Faroe

Islands

Advisor: Dr. Christopher Tillquist

B.A. Anthropology, University of Louisville, 2009

B.S. Sociology, University of Louisville, 2009

AE Mann: Curriculum Vitae 1 of 10

Grants and Awards

Clemson University Postdoc Association Travel Grant (\$300) 2024 Clemson University Postdoc Association Research Symposium, 2nd place poster 2024 presentation 2017-2019 National Science Foundation #1650746 [co-PI] The impact of microeukaryotes in human microbiome evolution (\$25,184.00) University of British Columbia, Postdoctoral Research Day, 3rd place oral presentation 2018 University of Oklahoma, Graduate Student Senate Travel Grant 2018 2012 University of Louisville, Department of Anthropology Travel Grant 2011 University of Louisville, Arts and Sciences Graduate Student Union Research Funding **Publications** 2024 RM Austin, TP Honap, AE Mann, A Hübner, CMS DeGaglia, C Warinner, MK Zuckerman, CA Hofman. Metagenomic and paleopathological analyses of a historic documented collection explore ancient dental calculus as a diagnostic tool. Scientific Reports. 10.1038/s41598-024-64818-7 2024 **AE Mann**, B Chakraborty, LM O'Connell, MM Nascimento, RA Burne, VP Richards. Heterogeneous lineage-specific arginine deiminase expression within dental microbiome species. Microbiology Spectrum. 10.1128/spectrum.01445-23 2023 VJ Mancilla, PN Braden-Kuhle, KN Brice, AE Mann, MT Williams, Y Zhang, MJ Chumley, RC Barber, SN White, GW Boehm, MS Allen. A synthetic formula amino acid diet leads to microbiome dysbiosis, reduced colon length, inflammation, and altered locomotor activity in C57BL/6J mice. Microorganisms. 10.3390/microorganisms11112694 2023 LM O'Connell, AE Mann, E Osagie, P Akhigbe, T Blouin, A Soule, O Obuekwe, A Omoigberale, RA Burne, MO Coker, VP Richards. Supragingival mycobiome of HIVexposed-but-uninfected children reflects a stronger correlation with caries-free

2023 P Vonaesch, V Billy, **AE Mann**, E Morien, A Habib, JM Collard, M Dédé, N Kapel, PJ Sansonetti, L Parfrey. *The eukaryome of African children is influenced by geographic*

Spectrum. 10.1128/spectrum.01491-23

location, gut biogeography, and nutritional status. MicroLife. 10.1093/femsml/uqad033

associated taxa compared to HIV-infected or uninfected children. Microbiology

2023 **AE Mann**, LM O'Connell, E Osagie, P Akhigbe, O Obuekwe, A Omoigberale, C Kelly, the DOMHaIN Study Team, MO Coker, VP Richards. *The impact of HIV on the oral microbiome of children living in sub-Saharan Africa using a rpoC gene-fragment metataxonomic approach.* Microbiology Spectrum. doi.org/10.1128/spectrum.00871-23

AE Mann, JA Fellows Yates, Z Fagernäs, RM Austin, EA Nelson, CA Hofman. Do I have something in my teeth? The trouble with genetic analyses of diet from archaeological dental calculus. Quaternary International. doi.org/10.1016/j.quaint.2020.11.019

- AM Tarone, **AE Mann**, Y Zhang, RR Zascavage, EA Mitchell, E Morales, TW Rusch, MS Allen. *The Devil is in the Details: Variable impacts of season, BMI, sampling site temperature, and presence of insects on the post-mortem microbiome*. Frontiers in Microbiology. 10.3389/fmicb.2022.1064904
- M Coker, P Akhigbe, E Osagie, N Idemudia, O Igedegbe, N Chukwumah, R Adebiyi, **AE Mann**, L O'Connell, O Obuekwe, A Omoigberale, M Charurat, VP Richards. Dental caries and its association with oral microbiomes and HIV in young children, Nigeria (DOMHaIN): a study protocol for a prospective study. BMC Oral Health. 10.1186/s12903-021-01944-y
- JA Fellows Yates, IM Velsko, F Aron, C Posth, CA Hofman, RM Austin, CE Parker, **AE Mann**, K Nägele, JW Arthur, CC Bauer, I Crevecoeur, C Cupillard, MC Curtis, L Dalén, MDZ Bonilla, JCD Fernández-Lomana, DG Drucker, EE Escrivá, M Francken, VE Gibbon, MG Morales, AG Mateu, K Harvati, AG Henry, L Humphrey, M Menéndez, D Mihailović, M Peresani, SR Moroder, M Roksandic, H Rougier, S Sázelová, JT Stock, LG Straus, J Svoboda, B Teßmann, KW Arthur, MJ Walker, RC Power, CM Lewis, K Sankaranarayanan, K Guschanski, R Wrangham, FE Dewhirst, DC Salazar-Garcia, J Krause, A Herbig, C Warinner. *The evolution and changing ecology of the African hominid oral microbiome*. PNAS. doi.org/10.1073/pnas.2021655118
- 2021 VJ Mancilla, **AE Mann**, Y Zhang, MS Allen. *The adult phenylketonuria (PKU) gut microbiome*. Microorganisms 9(3), doi.org/10.3390/microorganisms9030530
- 2020 **AE Mann**, EA Mitchell, Y Zhang, R Curtis-Robles, S Thapa, SA Hamer, MS Allen.

 Comparison of the bacterial gut microbiome of North American Triatoma spp. with and without Trypanosoma cruzi. Frontiers in Microbiology.

 doi.org/10.3389/fmicb.2020.00364
- 2019 **AE Mann**, F Mazel, MA Lemay, E Morien, V Billy, M Kowalewski, A Di Fiore, A Link, TL Goldberg, S Tecot, AL Baden, A Gomez, ML Sauther, FP Cuozzo, GAO Rice, NJ Dominy, R Stumpf, RJ Lewis, L Swedell, K Amato, L Wegener Parfrey. *Biodiversity of protists and nematodes in the wild non-human primate gut*. ISME J doi:10.1038/s41396-019-0551-4
- 2018 KA Ziesemer, J Ramos-Madrigal, **AE Mann**, B Brandt, K Sankaranarayanan, AT Ozga, M Hoogland, DC Salazar-Garcia, B Frolich, G Milner, M Aldenderfer, CM Lewis Jr, C Hofman, C Warinner, H Schroeder. *The efficacy of whole human genome capture and high throughput sequencing of ancient dental calculus and dentin*. American Journal of Physical Anthropology.1:14.
- 2018 **AE Mann**, S Sabin, K Ziesemer, ÅJ Vågene, H Schroeder, AT Ozga, K Sankaranarayanan, CA Hofman, J Fellows Yates, D Salazar Garcia, B Frohlich, M Aldenderfer, M Hoogland, C Read, CM Lewis, J Krause, C Hofman, K Bos, C Warinner. Differential preservation of endogenous human and microbial DNA in dental calculus and dentin. Scientific Reports 8: 9822
- D McDonald, E Hyde, JW Debelius, JT Morton, A Gonzalez, G Ackermann, AA
 Aksenov, B Behsaz, C Brennan, Y Chen, L DeRight Goldasich, PC Dorrestein, RR
 Dunn, AK Fahimipour, J Gaffney, JA Gilbert, G Gogul, JL Green, P Hugenholtz, G
 Humphrey, C Huttenhower, MA Jackson, S Janssen, DV Jeste, L Jiang, ST Kelley, D

Knights, T Kosciolek, J Ladau, J Leach, C Marotz, D Meleshko, AV Melnik, JL Metcalf, H Mohimani, E Montassier, J Navas-Molina, TT Nguyen, S Peddada, P Pevzner, KS Pollard, G Rahnavard, A Robbins-Pianka, N Sangwan, J Shorenstein, L Smarr, S Song, T Spector, D Swafford, VG Thackray, LR Thompson, A Tripathi, Y Vázquez-Baeza, A Vrbanac, P Wischmeyer, E Wolfe, Q Zhu, **The American Gut Consortium**, R Knight. *American Gut: An open platform for citizen science microbiome research*. mSystems May 2018, 3 (3) e00031-18; DOI: 10.1128/mSystems.00031-18

2017 C Warinner, A Herbig, **AE Mann**, JA Fellows-Yates, CL Weiß, HA Burbano, L Orlando, J Krause. *A Robust Framework for Microbial Archaeology*. Annual Reviews of

Genomics and Human Genetics 18:13.10 – 1.26

2015 KA Ziesemer, **AE Mann**, K Sankaranarayanan, H Schroeder, AT Ozga, B Brandt, E Zaura, A Waters-Rist, M Hoogland, D Salazar-Garcia, M Aldenderfer, A Henry, C Speller, J Hendy, D Weston, MJ Collins, CM Lewis Jr, C Hofman, C Warinner. *Intrinsic challenges in ancient microbiome reconstruction using 16S rRNA gene amplification*. Scientific Reports 5:1-19

Preprints and in Progress_____

AE Mann, E Magnussen, CR Tillquist. Early founder effects have determined parental population structure in the Faroe Islands. bioRxiv. https://www.biorxiv.org/content/10.1101/2024.08.27.601563v1

AE Mann, C Aumend, S Crull, LM O'Connell, E Osagie, P Akhibe, O Obuekwe, A Omoigberale, M Rowe, T Blouin, A Soule, C Kelly, the DOMHaiN Study Team, RA Burne, M Coker, VP Richards. HIV infection and exposure increases cariogenic taxa, reduces taxonomic turnover, and homogenizes spatial differentiation for the supragingival microbiome. Research Square. https://www.researchsquare.com/article/rs-4720457/v1

Open-Source Software Projects_____

Bubble tree generates a Cleveland-style dot plot or heatmap ordered by a

corresponding phylogenetic tree. Written in Python and available through GitHub

or as a Conda package.

gcLenCorPlots Generated summary statistics for read length and plots against read GC content

from a fastq or fasta formatted file. Written in Python and available through

GitHub.

MDM Calculator This R shiny app calculates the mutational distance of individual STR haplotypes

from the calculated population modal haplotype (under construction)

rpoCdb rpoC gene database for oral microbiome metataxonomics (under construction).

Scientific and Academic Activities

Present Review Editor, Frontiers in Cellular and Infection Microbiology, Oral Microbes and Host

2018	Graduate Research Assistant, Department of Microbiology. Laboratories for Molecular Anthropology and Microbiome Research, University of Oklahoma, Norman, OK, USA. Advisor: Dr. Krithi Sankaranarayanan
2016	Graduate Research Assistant, Department of Anthropology, Laboratories for Molecular Anthropology and Microbiome Research, University of Oklahoma, Norman, OK, USA. Advisor: Dr. Cecil Lewis
2014	Student Assistant, The Lozupone Lab, Department of Bioinformatics and Personalized Medicine, University of Colorado, Denver, CO, USA. Advisor: Dr. Catherine Lozupone
2013	Student Assistant, The Knight Lab, BioFrontiers Institute, University of Colorado, Boulder, CO, USA. Advisor: Dr. Jessica Metcalf
2012-2013	Graduate Research Assistant, Department of Anthropology, Laboratories for Molecular Anthropology and Microbiome Research, University of Oklahoma, Norman, OK, USA. Advisor: Dr. Cecil Lewis
2011-2012	Research Assistant, Department of Anthropology, Molecular Anthropology and Population Studies Laboratory, University of Louisville, Louisville, KY, USA. Advisor: Dr. Christopher Tillquist
2009-2010	Research Assistant, Nursing Research Department, University of Louisville, Louisville, KY, USA. Advisor: Dr. M. Cynthia Logsdon

Teaching_____

- Plagues and People: Health and Disease in Human Society (ANTH 4022/5005; ANTH 1913): University of Wyoming; University of Oklahoma
- Anthropology of the Microbiome (ANTH 4022/5005): University of Wyoming
- General Biology I (BIOL 1030): Clemson University

Workshops & Seminars_____

2020	R Mini-hackathon. Co-coordinator of workshop. Attendees were given public data and challenged to answer specific questions using R scripting techniques. University of North Texas HSC
2019	<u>Learning Git and GitHub</u> . Workshop covered the basics of git version control software and online repositories. University of North Texas HSC
2018	<u>Data transformation with R</u> . Led a seminar workshop at the University of British Columbia's R Study Group.
2018	<u>Python for Biology</u> . Designed and led a workshop outlining basic python syntax, data visualization, and common python packages for biological analysis (e.g., BioPython, pandas, IPython).

2016, 2018	Beginner R Programming for Biological Anthropologists (And Other Folks Too!). Designed and led a workshop where attendees were taught the basics of the R statistical software suite. Skills learned at the workshop were then used for exploratory data analysis of a large set of craniometric measurements and climatic data. University of Oklahoma		
2018	Inkscape for academics. Designed and let a workshop on the use of the open source vector graphics program Inkscape for the creation of high quality figures and presentation images.		
2017	<u>How Illumina Sequencing Works</u> . Designed and co-led a methods bootcamp workshop discussing the mechanics and chemistry behind Illumina sequencing and how to interpret raw Illumina sequencing files. Max Planck Institute for the Science of Human History		
2015	Scientific Computing Using Python. Designed and presented a tutorial for using the Python programming language, IPython, and the pandas and BioPython packages for genetic analysis and file manipulation. Presented at the LMAMR Programming Club Meeting, University of Oklahoma.		
Presentations & Lectures			
2024	Mind the gap: Microbiome insights into tooth decay and oral health disparities. Biological Sciences Seminar Series, Clemson University		
2024 2021	Mind the gap: Microbiome insights into tooth decay and oral health disparities.		
	Mind the gap: Microbiome insights into tooth decay and oral health disparities. Biological Sciences Seminar Series, Clemson University Archaeogenetic detection of eukaryotes in host-associated microbial communities: challenges and considerations. Standards, Precautions & Advances in Ancient		
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<u>Phylogenetic patterning of eukaryotes in the primate gut</u>. Postdoctoral Research Association Research Day, University of British Columbia

<u>Diversity and phylogenetic patterns of microeukaryotes in the primate gut</u>. Biodiversity Legendary Internal Seminar Series, University of British Columbia

2018

2018

2018	<u>Undercharacterized aspects of the human microbiome: parasites, predators, and old plaque</u> . Microbiome Seminar Series, University of British Columbia.		
2017	Length polymorphisms and preservation biases in ancient microbiome research. Seminar lecture, Department of Microbiology and Plant Biology, University of Oklahoma		
2017	<u>Differential preservation of DNA in archaeological dental calculus and dentin has implications for ancient microbiome research</u> . Lecture presented to the EcoMunch group, Department of Biology, University of Oklahoma		
2017	<u>DNA preservation in archaeological dental calculus and dentin</u> . Seminar lecture presented for the Department of Archaeogenetics, Max Planck Institute Für Menschheitsgeschichte		
2013	Molecular ecology analysis using QIIME. Invited lecture at the Oklahoma Medical Research Foundation's Research Computing and Bioinformatics Seminar, Oklahoma City, OK		
2013	Zoonotic Diseases. Guest lecture for the course Human Animal Interactions Across Cultures, Department of Anthropology, University of Oklahoma		
Posters			
2024	Childhood HIV infection and exposure suppresses temporal adaptive response of the supragingival plaque microbiome. American Society for Microbiology Microbe Conference, Atlanta, GA, USA		
2024	Childhood HIV infection and exposure impacts temporal and spatial assembly of the supragingival plaque microbiome. CUPDA Postdoctoral Research Symposium, Clemson, SC, USA		
2023	Arginine deiminase, probiotics, and tooth decay. Clemson University Division of Research Symposium, Clemson, SC, USA		
2023	Arginine catabolism by bacteria in the oral microbiome and the prevention of tooth decay. CUPDA Postdoctoral Research Symposium, Clemson, SC, USA		
2022	HIV infection in children is associated with a more divergent and individualistic oral microbiome in late-stage caries development as compared to perinatally exposed and uninfected children. CSH Microbiome, Cold Spring Harbor, NY, USA		
2018	Microeukaryotic and dietary survey of the human gut by internal transcribed spacer metabarcoding. Microbiome Research Network Symposium, Vancouver, BC, Canada		
2018	Ancient DNA from archaeological teeth and dental calculus preserves traces of biological processes that occur during an individual's life, and after their death. Oklahoma Archaeology Conference, Norman, OK		
2017	<u>Differential preservation of endogenous human and microbial DNA in dental calculus and dentin.</u> Society for American Archaeology, 82 nd Annual Meeting, Vancouver, Canada		

2016	Intrinsic challenges in ancient microbiome reconstruction using 16S rRNA gene amplification. Student Research and Creativity Day, University of Oklahoma		
2013	Founder effect impacts APOE allele frequency in northern Europe. American Association for Physical Anthropology Annual Meeting, Knoxville, TN		
2012	Vikings, merchants, and pirates at the top of the world: Y-chromosomal signatures of recent and ancient migrations in the Faroe Islands. American Association for Physical Anthropology Annual Meeting, Portland, OR		
2012	Vikings, merchants, and pirates at the top of the world: Y-chromosomal signatures of recent and ancient migrations in the Faroe Islands. Graduate Research Symposium, University of Louisville		
Outreach			
2021	Clemson Elementary School Science Fair Judge		
2021	South Carolina Academy of Science (SCAS) Annual Meeting. Written submission judge (microbiology/immunology/molecular biology).		
2019, 2021	Greater Vancouver Regional Science Fair Judge. Intermediate division 1 (microbiology & genetics) and Ocean Wise Marine Stewardship Award judge.		
2018	Adventures in Archaeological Science Coloring Book. Available under Creative Commons license in multiple languages including English, German, Spanish, Chinese, Greek, Nahuatl, Turkish, Mongolian, Dutch, Italian, Yucatec Mayan, and Arabic: http://christinawarinner.com/outreach/children/adventures-in-archaeological-science/		
2016	Oklahoma Educators Evolve Teacher Workshop. Workshop alumni and upper level biology teachers lectured on the genetic basis of evolution. Activities included manually aligning a portion of the mtDNA cytochrome B gene to reconstruct primate phylogeny and gummy bear genetics.		
2015	Oklahoma Educators Evolve Teacher Workshop. At the workshop I designed and led a session for the education of Oklahoma and Texas public school teachers on the role of microbes in Eukaryotic evolution. This event was designed to increase understanding of basic concepts of evolution for local teachers as well as provide them with activities to take back into the classroom to engage students on this topic. The workshop was held over two full days and included a wide range of participants, from elementary school to high school biology teachers.		
2015	Positive Tomorrows Science Day. The University of Oklahoma's Graduate Student Senate held a science day workshop for children attending Positive Tomorrows elementary school. At our booth, children learned about DNA and genetics and extracted DNA from peas.		
2014	The Food Environment in the Cheyenne & Arapaho Tribal Jurisdictional Area: Food Stores and Food Deserts. Co-author of a report presented to members of the Cheyenne & Arapaho Tribes in Western Oklahoma on the availability of healthy food items in the		

tribal jurisdictional area. Designed to assess access and provide community based recommendations to improve health and nutrition in the area.

Service	
Peer Reviews	FEMS Microbial Ecology, The Journal of Infection in Developing Countries, Microbiome, The Journal of Medical Entomology, Scientific Reports, Frontiers in Microbiology, Frontiers in Ecology and Evolution, Science Advances, Journal of Archaeological Science, BMC Microbiology, PLOS Neglected Tropical Diseases, Microbial Ecology, PCI Archaeology, ISME, Studies on Neotropical Fauna and Environment.
Grant Reviews	The Czech Science Foundation (GAČR), National Science Foundation (NSF)

Skills___

Molecular Biology: I am experienced in a wide variety of molecular laboratory skills including DNA extraction and purification, Illumina metabarcoding and metagenomic library preparation, gel electrophoresis, quantitative PCR, and basic microbe cultivation and aseptic techniques. I have worked in both a modern BSL-2 molecular laboratory as well as an ISO-6 dedicated clean room for working with ancient DNA and am familiar with standard protocols and procedures for both.

<u>Computational</u>: I am a proficient Python, R, and bash-shell user and have extensive experience working in a Linux/Unix environment. Familiar with relational database management, construction, and querying (MySQL). Competent with the application of a wide range of bioinformatics tools and pipelines for the analysis of large biomolecular datasets. I am an experienced user of computational servers that use queuing software and parallelization of computationally expensive bioinformatics methods.

Mentoring_____

Graduate Students		Undergraduate Students	
2022 – 2024	Suzanne Crull	2024	Eduardo Yanez-Dera
2019 – 2020	Viviana Mancilla	2023 – 2024	Haley Huynh
2018 – 2019	Vincent Billy	2022 – 2023	Ciara Aumend
2014 – 2015	Kirsten Ziesemer	2023	Rachel Mchugh
		2022 – 2023	Ashlyn Soule
		2022 - 2023	Matthew Rowe
		2021 – 2022	Colton Kelly
		2018 – 2019	Rachelle Loo
		2011 – 2012	Roxanne Leiter

References

Dr. Vincent P. Richards (+1 864 656 2207 | email: vpricha@clemson.edu)
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Dr. Michael Allen (+1 817 735 5038) | email: michael.allen@unthsc.edu)
Associate Professor, University of North Texas Health Science Center, Department of Microbiology, Immunology, and Genetics
3500 Camp Bowie Blvd.
Fort Worth, TX, USA 76107

Dr. Laura Wegener Parfrey (+1 604 827 2214 | email: www.ubc.ca) Assistant Professor, University of British Columbia, Department of Botany & Zoology 108-2212 Main Mall. Vancouver, BC, Canada V6T 1Z4

Dr. Cecil M. Lewis, Jr. (phone: +1 405 325-3415 | email: cmlewis@ou.edu) Professor, The University of Oklahoma, Department of Anthropology Laboratories of Molecular Anthropology and Microbiome Research Stephenson Research and Technology Center 101 David L. Boren Blvd.

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Dr. Christina Warinner (phone: +1 617 495 1279 | email: warinner@fas.harvard.edu)
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Cambridge, MA 02138 USA