

Elizabeth K. Mallott, Ph.D.

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Education

PhD 2016 University of Illinois at Urbana-Champaign, Urbana, IL
 Biological Anthropology

BA 2006 Grinnell College, Grinnell, IA
 Biology, with Honors
 Music, with Honors

Academic Appointments

2022-present Assistant Professor, Department of Biology, Washington University in St. Louis

2020-2022 Postdoctoral Fellow, Department of Biological Sciences and Vanderbilt Microbiome
 Innovation Center, Vanderbilt University, Supervisor: Dr. Seth Bordenstein

2019-2020 Visiting Lecturer, Department of Anthropology, Dartmouth College

2016-2020 Postdoctoral Fellow, Department of Anthropology, Northwestern University,
 Supervisor: Dr. Katherine Amato

Grants and Awards

External Grants

2019 CIFAR Catalyst Fund (PIs: H. Poinar and K. Amato): “Influence of the Neolithic
 transition on fiber fermentation in the human gut microbiome” (Role: writing and
 research design; \$45,380)

2019 American Association of Physical Anthropologists Cobb Professional Development
 Grant: “Contributions of the gut microbiome to reproductive health in female
 primates” (Role: PI; \$7,500)

2017 Leakey Foundation Research Grant: “Response of primate gut microbiome function
 to increased faunivory” (Role: Co-PI, with K. Amato; \$24,973)

2017 International Primatological Society Research Grant: “Do white-faced capuchins use
 preferred partners to mitigate foraging costs associated with color vision
 phenotypes?” (Role: PI; \$1,190)

2013 Lewis and Clark Fund for Exploration and Field Research Grant: “The influence of
 insect availability on diet and social network dynamics in white-faced capuchins

monkeys (*Cebus capucinus*)” (Role: PI; \$5,000)
 2011-2014 National Science Foundation Graduate Research Fellowship (\$127,500)

Internal Grants

2020 Claire Garber Goodman Fund Faculty Research Grant (\$960)
 2020 Rockefeller Center Faculty Classroom Enhancement Grant (\$419)
 2018 Postdoctoral Professional Development Travel Award, NU (\$500)
 2015 Department of Anthropology Fall Block Grant, UIUC (\$12,500)
 2014 Beckman Institute CS/AI Award, UIUC (\$2,000)
 2014 Graduate College Conference Travel Award, UIUC (\$325)
 2013 Beckman Institute CS/AI Award (\$2,000)
 2012 Department of Anthropology Summer Research Assistance Award (\$2,191)
 2011 Department of Anthropology Summer Research Assistance Award (\$1,486)
 2011 Tinker Field Research Grant (\$1,500)

Awards

2016 American Association of Anthropological Genetics’ Outstanding Trainee
 Presentations in Anthropological Genetics Poster Prize at the AAPA annual meeting
 2016 Demitri B. Shimkin Award for a superior paper in anthropology, Department of
 Anthropology, UIUC
 2012 George A. Beslow Award in Anthropology and Sociology, Department of
 Anthropology, UIUC

Publications

Journal Articles

In review **EK Mallott**, AR Sitarik, LD Leve, C Cioffi, CA Camargo, K Hawegawa, SR
 Bordenstein. Sociodemographic-linked microbiome variation appears after three
 months of age.

In review TL Whitney, **EK Mallott**, LO Kiakiw, DM Christie, N Ting, KR Amato, S Tecot, A
 Baden. Social and ecological factors shaping the gut microbiome of a pair-living
 mammal in Madagascar.

In revision P Pradhan, **EK Mallott**, W Shirola, A Lu, KR Amato. Host-gut microbiota
 interactions during pregnancy. *Evolution, Medicine, and Public Health*.

In revision TJ Cepen-Robins, **EK Mallott**, IC Recca, TE Gildner. Evidence and effects of
 neglected parasitic infections among a small preliminary sample of children from
 rural Mississippi. *American Journal of Human Biology*.

In revision O Chioma[†], **EK Mallott**[†], L Hesse, A Chapman, JC Van Amburg, H Wu, B Shah-
 Gandhi, TP Torres, M Kirkland, M Byndloss, MB Piazuelo, J Johnson, GR Bernard,

SR Bodduluri, S Davison, H Bodduluri, SR Bordenstein, W Drake. Gut microbiota modulates lung fibrosis severity following acute lung injury. *Communications Biology*. DOI: [10.21203/rs.3.rs-622623/v1](https://doi.org/10.21203/rs.3.rs-622623/v1).

- †Co-first authors

2022 **EK Mallott**. Individualized composition or community dynamics? A new statistical approach to assess the individuality of host-associated microbiomes. *Proceedings of the Royal Society B* 289: 20221794. DOI: [10.1098/rspb.2022.1794](https://doi.org/10.1098/rspb.2022.1794).

2022 J Li[†], RHG Markowitz[†], AW Brooks[†], **EK Mallott**[†], BA Leigh, T Olszewski, H Zare, M Bagheri, HM Smith, KA Friese, I Habibi, WM Lawrence, CL Rost, A Lédeczi, AM Eeds, JF Ferguson, HJ Silver, SR Bordenstein. Individuality and ethnicity eclipse a short-term dietary intervention in shaping microbiomes and viromes. *PLoS Biology* 20: e3001758. DOI: [10.1371/journal.pbio.3001758](https://doi.org/10.1371/journal.pbio.3001758).

- †Co-first authors

2022 R Martínez-Mota, N Righini, **EK Mallott**, R Palme, KR Amato. Environmental stress and the primate microbiome: Glucocorticoids contribute to structure gut bacterial communities of black howler monkeys in anthropogenically disturbed forest fragments. *Frontiers in Ecology and Evolution* 10: 863242.

2022 **EK Mallott**, LH Skovmand, PA Garber, KR Amato. The faecal metabolome of black howler monkeys (*Alouatta pigra*) varies in response to seasonal dietary changes. *Molecular Ecology* 31: 4146-4161. DOI: [10.1111/mec.16559](https://doi.org/10.1111/mec.16559).

2022 T Cepon-Robins, **EK Mallott**, I Recca, T Gildner. Exploring biocultural determinants of intestinal health: Do resource access and parasite exposure contribute to intestinal inflammation among a preliminary sample of children in rural Mississippi? *American Journal of Biological Anthropology*. DOI: [10.1002/ajpa.24574](https://doi.org/10.1002/ajpa.24574).

2022 AL Severson, BF Byrd, **EK Mallott**, AC Owings, M DeGiorgio, A de Flamingh, C Nijmeh, M Arellano, A Leventhal, N Rosenberg, RS Malhi. Ancient and modern genomics of the Ohlone Indigenous population of California. *Proceedings of the National Academy of Sciences* 119: e2111533119. DOI: [10.1073/pnas.2111533119](https://doi.org/10.1073/pnas.2111533119).

2022 **EK Mallott**, KR Amato. Butyrate-producing pathways abundances are similar in human and nonhuman primate gut microbiomes. *Molecular Biology and Evolution* 39: msab279. DOI: [10.1093/molbev/msab279](https://doi.org/10.1093/molbev/msab279).

2021 **EK Mallott**, KR Amato. Host specificity of the gut microbiome. *Nature Reviews Microbiology* 19: 639-653. DOI: [10.1038/s41579-021-00562-3](https://doi.org/10.1038/s41579-021-00562-3).

2021 R Martínez-Mota, N Righini, **EK Mallott**, T Gillespie, KR Amato. The relationship between pinworm (*Trypanoxyuris*) infection and gut bacteria in wild black howler monkeys (*Alouatta pigra*). *American Journal of Primatology* 83: e23330. DOI: [10.1002/ajp.23330](https://doi.org/10.1002/ajp.23330).

- 2021 KR Amato, **EK Mallott**, P Maia, ML Savo Sardaro. Predigestion as an evolutionary impetus for human use of fermented food. *Current Anthropology* 62: S207-S219. [DOI: 10.1086/715238](https://doi.org/10.1086/715238).
- 2021 KR Amato, OM Chaves, **EK Mallott**, TM Eppley, F Abreu, AL Baden, AA Barnett, JC Bicca-Marques, SA Boyle, CA Chapman, K Galisteo Diemer Lopes, P Fan, P Fashing, A Felton, IP Fontes, B Fruth, MF Castellon de la Fuente, V Fortes, CC Grueter, G Hohmann, M Irwin, J Matthews, A Mekonnen, A Melin, J Ostner, N Nguyen, A Piel, B Pinacho-Guendulain, EP Quintino Aredes, PT Razanapary, JM Rothman, N Schiel, O Schuelke, S Shanee, A Souto, JP Souza-Alves, S Tecot, F Stewart, A Stone, B Sun, K Valenta, E Vogel, S Wich, Y Zeng. Fermented food consumption in wild non-human primates and its ecological drivers. *American Journal of Physical Anthropology* 175: 513-530. [DOI: 10.1002/ajpa.24257](https://doi.org/10.1002/ajpa.24257).
- 2021 S Kuthyar, MM Kowalewski, DM Roellig, **EK Mallott**, Y Zeng, TR Gillespie, KR Amato. Effects of anthropogenic habitat disturbance and *Giardia duodenalis* infection on a sentinel species' gut bacteria. *Ecology and Evolution* 11: 45-57. [DOI: 10.1002/ece3.6910](https://doi.org/10.1002/ece3.6910).
- 2020 **EK Mallott**, KR Amato. Phyllosymbiosis, diet, and gut microbiome associated metabolic disease. *Evolution, Medicine, and Public Health* 2020: 100-101. [DOI: 10.1093/emph/eoaa019](https://doi.org/10.1093/emph/eoaa019).
- 2020 **EK Mallott**, C Borries, A Koenig, KR Amato, A Lu. Reproductive hormones mediate changes in the gut microbiome during pregnancy and lactation in Phayre's leaf monkeys. *Scientific Reports* 10: 9961. [DOI: 10.1038/s41598-020-66865-2](https://doi.org/10.1038/s41598-020-66865-2).
- 2019 **EK Mallott**, RS Malhi, KR Amato. Assessing the comparability of different DNA extraction and amplification methods in gut microbial community profiling. *Access Microbiology* 1. [DOI: 10.1099/acmi.0.000060](https://doi.org/10.1099/acmi.0.000060).
- 2019 JS Frankel, **EK Mallott**, LM Hopper, SR Ross, KR Amato. The effect of captivity on the primate gut microbiome varies with host dietary niche. *American Journal of Primatology* 81: e23061. [DOI: 10.1002/ajp.23061](https://doi.org/10.1002/ajp.23061).
- 2019 KR Amato, **EK Mallott**, JE Lambert, D McDonald, A Gomez, JL Metcalf, NJ Dominy, GAO Britton, RM Stumpf, T Goldberg, SR Leigh, R Knight. Convergence of human and Old World monkey gut microbiomes demonstrates the importance of human ecology over phylogeny. *Genome Biology* 20: 201. [DOI: 10.1186/s13059-019-1807-z](https://doi.org/10.1186/s13059-019-1807-z).
- 2019 A Gomez, A Sharma, **EK Mallott**, K Petrzelkova, CJ Robinson, C Yeoman, F Carbonero, B Pafco, J Rothman, A Ulanov, K Vlckova, KR Amato, S Schnorr, NJ Dominy, D Modry, A Todd, M Torralba, K Nelson, M Burns, R Blekhman, M Remis, RM Stumpf, B Wilson, H Gaskins, PA Garber, B White, SR Leigh. Plasticity in the human gut microbiome defies evolutionary constraints. *mSphere* 4: e00271-19. [DOI: 10.1128/mSphere.00271-19](https://doi.org/10.1128/mSphere.00271-19).

- 2019 PA Garber, **EK Mallott**, LM Porter, A Gomez. The gut microbiome and metabolome of saddleback tamarins (*Leontocebus weddelli*): Insights into the foraging ecology of small-bodied primates. American Journal of Primatology 81: e23003. DOI: [10.1002/ajp.23003](https://doi.org/10.1002/ajp.23003).
- 2018 **EK Mallott**, KR Amato. The microbial reproductive ecology of white-faced capuchins (*Cebus capucinus*). American Journal of Primatology 80: e22896. DOI: [10.1002/ajp.22896](https://doi.org/10.1002/ajp.22896).
- 2018 **EK Mallott**, PA Garber, RS Malhi. trnL outperforms rbcL as a DNA metabarcoding marker when compared with the observed plant component of the diet of white-faced capuchins (*Cebus capucinus*). PLoS One 13: e0199556. DOI: [10.1371/journal.pone.0199556](https://doi.org/10.1371/journal.pone.0199556).
- 2018 **EK Mallott**, KR Amato, PA Garber, RS Malhi. Influence of fruit and invertebrate consumption on the gut microbiota of wild white-faced capuchins (*Cebus capucinus*). American Journal of Physical Anthropology 165: 576-588. DOI: [10.1002/ajpa.23395](https://doi.org/10.1002/ajpa.23395).
- 2018 J Lindo, M Rogers, **EK Mallott**, B Petzelt, J Mitchell, D Archer, RS Malhi, M DeGiorgio. Patterns of genetic coding variation in a Native American population before and after European contact. American Journal of Human Genetics 102: 806-815. DOI: [10.1016/j.ajhg.2018.03.008](https://doi.org/10.1016/j.ajhg.2018.03.008).
- 2018 A de Flamingh, **EK Mallott**, AL Roca, A Boraas, RS Malhi. Species identification and mitochondrial genomes of ancient fish bones from the Riverine Kachemak tradition of the Kenai Peninsula, Alaska. Mitochondrial DNA Part B 3: 409-411. DOI: [10.1080/23802359.2018.1456371](https://doi.org/10.1080/23802359.2018.1456371).
- 2017 JE Molto, O Loreille, **EK Mallott**, RS Malhi, S Fast, J Daniels-Higginbotham, C Marshall, R Parr. Complete mitochondrial genome sequencing of a burial from a Romano-Christian cemetery in the Dakhleh Oasis, Egypt. Genes 8: 262. DOI: [10.3390/genes8100262](https://doi.org/10.3390/genes8100262).
- 2017 G Figueiro, L Cabrera Pérez, J Lindo, **EK Mallott**, A Owings, RS Malhi, M Sans. Análisis del genoma mitocondrial de dos individuos inhumados en el sitio arqueológico CG14E01 “Isla Larga” (Rocha, Uruguay). Revista Argentina de Antropología Biológica 19: 1-17. DOI: [10.17139/raab.2017.0019.01.06](https://doi.org/10.17139/raab.2017.0019.01.06).
- 2017 **EK Mallott**, PA Garber, RS Malhi. Integrating feeding behavior, ecological data, and DNA barcoding to identify developmental differences in invertebrate foraging strategies in white-faced capuchins (*Cebus capucinus*). American Journal of Physical Anthropology 162: 241-254. DOI: [10.1002/ajpa.23113](https://doi.org/10.1002/ajpa.23113).
- 2015 **EK Mallott**, PA Garber, RS Malhi. High-throughput sequencing of fecal DNA to identify insects consumed by wild Weddell’s saddleback tamarins (*Saguinus weddelli*, Cebidae, Primates) in Boliva. American Journal of Physical Anthropology 156: 474-481. DOI: [10.1002/ajpa.22654](https://doi.org/10.1002/ajpa.22654).

- 2012 PA Garber, A McKenney, **EK Mallott**. The ecology of trunk-to-trunk leaping in *Saguinus fuscicollis*: implications for understanding locomotor diversity in callitrichines. Neotropical Primates 12: 1-7. [DOI: 10.1896/044.019.0101](https://doi.org/10.1896/044.019.0101).

Encyclopedia Chapters

- 2017 **EK Mallott**. Locus. In J. Vonk & T. Shackelford (Eds.), Encyclopedia of Animal Cognition and Behavior. New York: Springer International Publishing. [DOI: 10.1007/978-3-319-47829-6_182-1](https://doi.org/10.1007/978-3-319-47829-6_182-1).
- 2017 **EK Mallott**. Somatic Cell. In J. Vonk & T. Shackelford (Eds.), Encyclopedia of Animal Cognition and Behavior. New York: Springer International Publishing. [DOI: 10.1007/978-3-319-47829-6_173-1](https://doi.org/10.1007/978-3-319-47829-6_173-1).

Teaching Experience

Vanderbilt University, Vanderbilt Microbiome Initiative

Instructor

2020-2022 Microbiome Analysis Workshop Series

Dartmouth College, Department of Anthropology

Lecturer

2020 Anthropology 20: Primate Evolution and Ecology
 2020 Anthropology 62: Health and Disease in Evolutionary Perspective
 2019 Anthropology 06: Introduction to Biological Anthropology
 2019 Anthropology 50.29: Paleogenomics – Ancient Human Health, Migration & Diversity

Northwestern University, Department of Anthropology

Lecturer

2019 Anthropology 390: Microbiome Analysis
 Co-taught with Dr. Katherine Amato
 2018 Anthropology 390: Ancient Health and Migration

University of Illinois at Urbana-Champaign, Department of Anthropology

Instructor

2016 Anthropology 143: Biology of Human Behavior

Teaching Assistant

2016 Anthropology 278: Climate Change and Civilization
 Supervisor: Dr. Lisa Lucero

- 2014 Anthropology 102: Human Origins and Culture
Supervisors: Dr. Laura Shackleford and Dr. Lisa Lucero
- 2011-2014 Anthropology 445: Research in Bioanthropology (Field Course)
Supervisor: Dr. Paul Garber

Advising and Mentorship

Graduate

- 2020-2022 Rob Markowitz, *Vanderbilt University*
- 2019-2022 Negin Valizadegan, *University of Illinois at Urbana-Champaign* (PhD committee member)
- 2019 Manuel Fonseca, *Universidad de los Andes* (MA external evaluator)

Post-graduate

- 2016-2017 Brandy Parker, *Northwestern University* (lab methods and bioinformatic analyses)
- 2013-2014 Liz Rasheed, *La Suerte Biological Field Station* (behavioral/ecological field methods)
- 2013-2014 Michaela Snead, *La Suerte Biological Field Station* (behavioral/ecological field methods)
- 2013-2014 Cindy Taylor, *La Suerte Biological Field Station* (behavioral/ecological field methods)

Undergraduate

- 2022-present Jennifer Ong, *Washington U. in St. Louis* (lab methods and bioinformatic analyses)
- 2022-present Kaylaa Betts, *Washington U. in St. Louis* (lab methods and bioinformatic analyses)
- 2021-2022 Peter Podar, *Vanderbilt University* (bioinformatic analyses)
- 2018-2020 Peter Finnegan, *Northwestern University* (lab methods and bioinformatic analyses, Academic Year Undergraduate Research Grant recipient)
- 2018-2019 Nicolette McManus, *Northwestern University* (lab methods and bioinformatic analyses, Summer and Academic Year Undergraduate Research Grant recipient)
- 2018-2019 Imogene Asa, *Northwestern University* (lab methods and bioinformatic analyses, Summer Year Undergraduate Research Grant recipient)
- 2018 Amy Yalcin, *Northwestern University* (lab methods)
- 2017-2018 Tara Mittelberg, *Northwestern University* (lab methods)
- 2016-2017 Jeff Frankel, *Northwestern University* (lab methods)
- 2014-2015 Elizabeth Clausing, *University of Illinois at Urbana-Champaign* (lab methods)

Pedagogical Training

- 2017 Inclusive Teaching Workshop, Center for the Integration of Research, Teaching, and Learning, Northwestern University
- 2017 Evidenced-Based Strategies for Implementing Group Work, Searle Center for Advanced Teaching and Learning, Northwestern University
- 2017 Mentored Discussions of Teaching, Center for the Integration of Research, Teaching, and Learning at Northwestern, Northwestern University
- 2014 Graduate Academy for College Teaching, Center for Innovation in Teaching and Learning, University of Illinois at Urbana-Champaign

Published Abstracts and Conference Presentations

Invited Lectures and Conference Presentations

Apr 2022	European Congress of Clinical Microbiology and Infectious Disease annual meeting, <i>Pathogen competition and co-evolution in the microbiome</i> symposium, Lisbon, Portugal
Mar 2022	Department of Anthropology, University of California Santa Barbara
Mar 2022	Microbiome Centers Consortium Seminar Series
Feb 2022	Department of Biology, Washington University in St. Louis
Feb 2022	Department of Anthropology, University of North Carolina Chapel Hill
Feb 2022	Department of Anthropology, Tulane University
Dec 2021	Department of Biology, American University
Mar 2021	Department of Biology, University of North Carolina Chapel Hill
Feb 2020	Department of Anthropology, University of Minnesota
Feb 2020	Department of Anthropology, Boston University
Nov 2019	Program in Bioinformatics, Loyola University Chicago
Aug 2019	International Society for Evolution, Medicine, and Public Health annual meeting, <i>Microbiome and neurologic disease risk</i> symposium, Zurich, Switzerland
Jan 2019	Department of Anthropology, Kent State University
Sep 2018	Department of Archaeology, University of Cambridge
Apr 2018	Evolutionary Medicine Society, Loyola Stritch Medical School
Feb 2018	Department of Biology, University of Nebraska Omaha
Dec 2017	Department of Anthropology, University of North Carolina at Charlotte
Apr 2015	American Association of Physical Anthropology annual meeting, <i>Thinking Anthropologically about Genetics</i> symposium, St. Louis, MO
Jan 2014	Applied Genomics in Anthropological Research Workshop, San Antonio, TX

Published Abstracts

*Denotes undergraduate student mentee

+Denotes graduate student mentee

2022	KR Amato, EK Mallott , Z Dickson, S Long, M Kuch, P D’Almeida Maia, L Diakiw, MF de la Fuente, PA Garber, M Gurven, M Hoke, C Kuzawa, T McDade, R Nusslock, A Rich, N Schiel, C Schmitt, B Trumble, H Poinar. The effect of diet on the gut microbiome of humans and non-human primates. <i>American Journal of Biological Anthropology</i> 177(S73): 3.
2022	TJ Cepon-Robins, EK Mallott , IC Recca, TE Gildner. Rural Embodiment of Child Health (REACH) Study: Macroparasite infection prevalence and associated immune responses among a preliminary sample of children from rural Mississippi. <i>American Journal of Human Biology</i> 34(S2): 9.
2022	TJ Cepon-Robins, EK Mallott , IC Recca, TE Gildner. Rural Embodiment and Child Health (REACH) Study: Effects of resource access and microparasite exposure on intestinal inflammation among children from rural Mississippi. <i>American Journal of Biological Anthropology</i> 177(S73): 30.

- 2021 **EK Mallott**, PA Garber, AC McKenney, PM Finnegan, JC Bicca-Marques, Antonio Souto, Nicola Schiel, Katherine R Amato. The gut microbiome of common marmosets (*Callithrix jacchus*) living in an extremely hot and dry Caatinga environment. *American Journal of Physical Anthropology* 174(S70): 65.
- 2020 **EK Mallott**. Strain-level variation in bacteria across reproduction in wild white-faced capuchin monkeys (*Cebus capucinus*). *American Journal of Physical Anthropology* 171(S69): 171.
- 2020 N Valizadegan⁺, **EK Mallott**, JF Brinkworth. A functional comparison of primate blood microbiota and whole blood transcriptomes. *American Journal of Physical Anthropology* 171(S69): 291.
- 2020 A Lu, KR Amato, AM Baniel, JC Beehner, TJ Bergman, C Borries, A Koenig, **EK Mallott**, N Snyder-Mackler. The gut microbiome and reproductive state in two Old World primates. *American Journal of Physical Anthropology* 171(S69): 166.
- 2019 **EK Mallott**, KR Amato. Variation in butyrate-production pathways across human and nonhuman primates. *American Journal of Physical Anthropology* 168(S68): 152.
- 2019 SR Leigh, D McDonald, NJ Dominy, TL Goldberg, J Lambert, JL Metcalf, A Gomez, GAO Britton, RM Stumpf, R Knight, **EK Mallott**, KR Amato. High variability and decoupling from phylogenetic effects characterize the human microbiome. *American Journal of Physical Anthropology* 168(S68): 141.
- 2019 J Lindo, M Rogers, **EK Mallott**, B Petzelt, J Mitchell, D Archer, J Cybulski, R Malhi, M DeGiorgio. Patterns of genetic coding variation in a Native American population before and after European contact. *American Journal of Physical Anthropology* 168(S68): 144.
- 2019 A Lu, **EK Mallott**, K Amato. Gut microbial composition differs based on reproductive state in wild Phayre's leaf monkeys. *American Journal of Physical Anthropology* 168(S68): 147.
- 2018 **EK Mallott**, KR Amato. Seasonal changes in the metabolome of wild black howler monkeys (*Alouatta pigra*). *American Journal of Physical Anthropology* 165(S66): 165.
- 2018 KR Amato, N Righini, **EK Mallott**, R Martinez-Moto. Interactions between bacteria and parasites in the gastrointestinal tract of wild black howler monkeys (*Alouatta pigra*). *American Journal of Physical Anthropology* 165(S66): 9.
- 2017 **EK Mallott**, PA Garber, RS Malhi, KR Amato. Relationship between reproductive status and gut microbial community composition in white-faced capuchins (*Cebus capucinus*). *American Journal of Physical Anthropology* 162(S64): 274.
- 2016 **EK Mallott**, PA Garber, RS Malhi. Dietary correlates of gut microbiome composition in white-faced capuchins (*Cebus capucinus*). *American Journal of Physical Anthropology* 159(S62): 217.

- 2016 RWA Smith, **EK Mallott**, J Lindo, M Rogers, DA Bolnick, AL Non, TA Tung, RS Malhi. Evaluating deamination-based approaches for inferring DNA methylation: insights from two ancient genomes. *American Journal of Physical Anthropology* 159(S62): 296.
- 2015 **EK Mallott**, E Clausing*, RS Malhi. Use of high-throughput sequencing to investigate white-faced capuchin prey choice. *American Journal of Physical Anthropology* 156(S60): 212.
- 2014 **EK Mallott**. Influence of fruit and invertebrate availability on patterns of spatial association in white-faced capuchin monkeys (*Cebus capucinus*) in northeastern Costa Rica. *American Journal of Primatology* 76(S1): 75.
- 2014 **EK Mallott**. Influence of variation in arthropod availability on the foraging ecology of white-faced capuchin monkeys (*Cebus capucinus*). *American Journal of Physical Anthropology* 153(S58): 175.
- 2013 PA Garber, **EK Mallott**, and RS Malhi. Analysis of fecal DNA to identify insects consumed by wild saddleback tamarins (*Saguinus fuscicollis weddelli*) in Bolivia. *American Journal of Primatology* 75: 74.
- 2012 **EK Mallott**. Influences of natural and anthropogenic landscape features on ranging patterns of white-faced capuchins (*Cebus capucinus*). *American Journal of Physical Anthropology* 147(S54): 201.
- 2010 **EK Mallott**, NA Bowling, CS Ionica, EA Kerschner, ML Miller, MFSX Novak, KL Robbins, and SJ Suomi. Effect of number of close relatives on infant developmental milestones in socially housed *Macaca mulatta*. *American Journal of Primatology* 72(S1): 58.
- 2010 JC Songrady, MFSX Novak, AM Ruggiero, **EK Mallott**, NA Bowling, ML Miller, EA Kerschner, K Synnestvedt, SJ Suomi. Temperament development and sex differences in rhesus macaque infants (*Macaca mulatta*) across different testing environments. *American Journal of Primatology* 72(S1): 53.
- 2009 NA Bowling, **EK Mallott**, MFSX Novak, ML Miller, GP Sackett, SJ Suomi, KL Robbins, CS Ionica. Differential pregnancy experiences and postnatal outcomes may indicate individual differences in fetal responses to maternal psychological challenge in rhesus macaques (*Macaca mulatta*). *American Journal of Primatology* 71(S1): 46.
- 2008 **EK Mallott**, MFSX Novak, KL Robbins, CS Ionica, ML Miller, EA Kerschner, and SJ Suomi. Development of infant-mother independence in *Macaca mulatta* housed in modified nuclear-family housing. *American Journal of Primatology* 70(S1): 33.

Conference Presentations

*Denotes undergraduate student mentee

+Denotes graduate student mentee

- 2020 **EK Mallott.** Diet and the gut microbiome of platyrrhine monkeys. Presented at the Mammalian Microbiome Seminar (virtual postdoc-organized conference).
- 2019 **EK Mallott.** Patterns of phylosymbiosis in primate gut microbiomes and metabolic disease risk. Presented at the Evolutionary Medicine Symposium, Dartmouth College, Hanover, NH.
- 2019 **EK Mallott, ML Bergstrom, S Kawamura, L Fedigan, AD Melin.** A test of the mutual benefit of association hypothesis for maintaining color vision polymorphisms in wild white-faced capuchins. Presented at the American Society of Primatologists, Madison, WI.
- 2019 **EK Mallott, KR Amato.** Variation in butyrate-production pathways across human and nonhuman primates. Presented at the Gordon Research Conference on Ecological and Evolutionary Genomics, Manchester, NH.
- 2019 **EK Mallott, KR Amato.** Variation in butyrate-production pathways across human and nonhuman primates. Presented at the Congress on Gastrointestinal Function, Chicago, IL.
- 2018 **EK Mallott, KR Amato.** The microbial reproductive ecology of white-faced capuchins (*Cebus capucinus*). Presented at the Maternal Infant Microbiome Symposium, University of Chicago, Chicago, IL.
- 2017 **EK Mallott, PA Garber, RS Malhi, KR Amato.** Relationship between reproductive status and gut microbial composition in white-faced capuchins (*Cebus capucinus*). Presented at the Midwest Primate Interest Group meeting, Northwestern University, Evanston, IL.
- 2016 **EK Mallott, PA Garber, RS Malhi.** Vertebrate predation in white-faced capuchin monkeys (*Cebus capucinus*). Poster presented at the International Primatological Society meeting, Chicago, IL.
- 2015 **EK Mallott, PA Garber, RS Malhi.** Dietary correlates of gut microbiome composition in white-faced capuchins (*Cebus capucinus*). Presented at the Midwest Primate Interest Group meeting, Fontbonne University, St. Louis, MO.
- 2015 **EK Mallott, PA Garber, RS Malhi.** Integrating DNA barcode data with behavioral and ecological data in a study of white-faced capuchin faunivory. Presented at the 6th International Barcode of Life Conference, Guelph, ON.
- 2014 **EK Mallott, E Clausing*, RS Malhi.** Use of high-throughput sequencing to determine animal prey present in the diet of wild white-faced capuchin monkeys

(*Cebus capucinus*). Presented at the Midwest Primate Interest Group meeting, University of Wisconsin, Madison, WI.

- 2012 **EK Mallott**, RS Malhi. Use of a fecal DNA sequencing technique to determine the composition of wild nonhuman primate diets. Presented at the Midwest Primate Interest Group meeting, Northern Illinois University, DeKalb, IL.
- 2011 **EK Mallott**. Patterns of travel route and feeding site use in white-faced capuchins (*Cebus capucinus*). Presented at the Tinker Workshop, University of Illinois at Urbana-Champaign, Champaign, IL.
- 2011 **EK Mallott**. Patterns of travel route and feeding site use in white-faced capuchins. Poster presented at the Midwest Primate Interest Group meeting, Kent State University, Kent, OH.
- 2005 **EK Mallott**, M Heavner. Nightly foraging patterns of bats on Prince of Wales Island, Alaska. Poster presented at the North American Symposium on Bat Research, Sacramento, CA.

Research Experience

Field and Lab Experience

- 2013-2014 La Suerte Biological Field Station, Costa Rica
Foraging behavior and ecology of wild white-faced capuchin monkeys (*Cebus capucinus*)
- 2011 La Suerte Biological Field Station, Costa Rica
Habituation and ranging behavior of wild white-faced capuchin monkeys (*Cebus capucinus*)
- 2007-2010 Intramural Research Training Fellow, National Institute of Child Health and Development, National Institutes of Health
Mother-infant interactions and cognitive development of captive Rhesus macaques (*Macaca mulatta*) (supervisors: Dr. Stephen Suomi and Dr. Matthew Novak)
- 2007 Marojejy National Park, Madagascar, field assistant
Lemur population survey (supervisor: Dr. Erik Patel)
- 2007 Department of Wildlife and Fisheries, Mississippi State University, field assistant
Small mammal mark-recapture and vegetation surveys (supervisor: Dr. Ray Igley)
- 2006 Salt Plains National Wildlife Refuge, intern
Population monitoring of several bird, reptile, and mammal species
- 2005 NSF Research Experiences for Undergraduates program, University of Alaska Southeast
Bioacoustical monitoring of bats (advisor: Dr. Matthew Heavner)

Service

Outreach

2018-2019 NU Morning Mentors Program, Evanston, IL.
2017-2018 Judge, Poster Presentation Competition, Computational Research Day, Northwestern University.
2017 STEM Professional, Project Exploration Sisters4Science program, Chicago, IL.
2017 Volunteer, Expanding Your Horizons Workshop, Chicago, IL.
2011-2016 Environmental education volunteer, Champaign County Forest Preserve District.
2014-2016 Volunteer, Fruit Forensics program, Champaign Public Library.

Professional Societies

American Society of Primatologists, 2007-present
American Association of Physical Anthropologists, 2010-present
American Association of Anthropological Genetics, 2013-present
International Primatological Society, 2018-present
International Society of Evolutionary Medicine and Public Health, 2019-present

Conferences/Meeting/Workshop Organization

2021-present Member, Microbiome Center Consortium Seminar Series Committee
2017 Co-organizer (with K. Amato and S. Rosenbaum), Midwest Primate Interest Group annual meeting, Northwestern University, Evanston, IL

Reviewer for

Journals: American Journal of Physical Anthropology, American Journal of Primatology, Animal Behaviour, Animal Microbiome, Current Zoology, eLife, Environmental Microbiology, International Journal of Primatology, Molecular Ecology, mSystems, Nature Communications, PeerJ, PLoS One, Proceedings of the Royal Society B, Wildlife Research

Grants: National Science Foundation, The Leakey Foundation, FWF Austrian Science Fund

Media Appearances

Capuchin Monkeys: Children of the Rainforest, On-camera Scientific Expert, Animal Planet Canada

Languages and Technical Skills

French – high proficiency in speaking, reading and writing.

Studied abroad at L'Université de Nantes, France, January 2005 to May 2005

Spanish – intermediate proficiency in speaking, reading and writing.

Proficient in R, working knowledge of Python.

Knowledge of AdapterRemoval, ANGSD, Anvi'o, ArcGIS, bammds, BEDtools, BioBakery suite, BLAST, Bowtie, BWA, Geneious, HMMER3, MapDamage, MEGAHIT, MEGAN, Microsoft Office Suite, QIIME, PEAR, SAMTOOLS, SAS, SOCPROG, Trimmomatic, UCINET, USEARCH, Xander.

Experience with DNA extraction (modern and ancient), host DNA depletion, primer design, restriction enzyme digestion, PCR, DNA library construction for shotgun sequencing, mitogenome capture, whole genome capture, methyl capture, high-throughput DNA sequencing, metabolite extraction.