

**Elizabeth K. Mallott, Ph.D.**

Department of Biology • Washington University in St. Louis

1 Brookings Dr • St. Louis, MO 63130

Phone: 314-935-2058 • Email: [mallott@wustl.edu](mailto:mallott@wustl.edu)

Website: <https://mallott-lab.github.io>

**Professional Positions**

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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

**Education**

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PhD	2016	University of Illinois at Urbana-Champaign, Urbana, IL Biological Anthropology
BA	2006	Grinnell College, Grinnell, IA Biology, with Honors Music, with Honors

**Funding**

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**Current Support**

***Non-governmental***

Leakey Foundation: Hybridization between purple-faced and gray langurs in Central Sri Lanka. PI: R Salmi (University of Georgia); co-PIs: EK Mallott, A Lu (Stony Brook University), R Vandercone (University of Peradeniya). Total Requested: \$30,000 (\$13,177 my lab). October 2025-December 2027.

**Pending Support**

***Governmental***

NSF-DEB: CAREER: Disentangling the influences of host genetics and environment on the gut microbiome in wild hybrid langur monkeys. PI: EK Mallott. Total Requested: \$1,808,359 (\$1,808,359 my lab). March 2026-February 2031.

NSF-SBE: Environmental exposures, gastrointestinal infections, and intestinal dysregulation: Testing the Hygiene and Old Friends hypotheses in low-resource U.S. communities. PI: TE Gildner (A&S Anthropology); co-PIs: EK Mallott, T Cepon-Robins (University of Colorado Colorado Springs); S Urlacher (Baylor University). Total Requested: \$382,814 (\$133,887 my lab). April 2026-March 2029.

NSF Growing Convergence Research (GCR): A convergent framework for predicting flood-driven health risks in vulnerable U.S. communities. PI: TE Gildner (A&S Anthropology); co-PIs: EK Mallott, C Masteller (A&S Earth, Environmental, and Planetary Sciences), Bo Li (A&S Data Science), F Ling (McKelvey Energy, Environmental & Chemical Engineering). Total Requested: \$3,599,999 (\$622,774 my lab). January 2026-December 2030.

NSF-SBE: Exploring the role of insects, gums, and the microbiome on the nutritional ecology of the cooperative breeding saddleback tamarin (*Leontocebus weddelli*). PI: L Porter (Northern Illinois University); co-PIs: EK Mallott, M Irwin (Northern Illinois University). Total Requested: \$123,202 (\$22,685 my lab). April 2026-March 2029.

NIH-NIGMS MIRA: Investigating the mechanisms driving host-associated microbial community dynamics. 1R35GM157055-01. PI: EK Mallott. Total Requested: \$1,943,750 (\$1,943,750 my lab). April 2025-March 2030.

### Past Support

#### **Governmental**

NSF SPRF Postdoctoral Fellowship: Structural determinants of exposure and the gut microbiome. SMA-2313248. PI: C Chaney; co-PIs: EK Mallott, TE Gildner (A&S Anthropology). Total Costs: \$160,000 (\$0 my lab). July 2023-June 2026.

#### **Non-governmental**

Transdisciplinary Institute in Applied Data Science (TRIADS) Seed Grant: Legacy of Neglect: Linking flood hazards, pathogen exposure, and health inequities in Cahokia Heights, IL. PI: EK Mallott; co-PIs: TE Gildner (A&S Anthropology), C Masteller (A&S Earth, Environmental, and Planetary Sciences). Total Costs: \$90,827 (\$38,598 my lab). April 2023-December 2024.

ICTS Just in Time (JIT) funding: ELISA validation of T3, T4, and TSH from dried blood spots. PI: EK Mallott. Total Costs: \$4,585 (\$4,585 my lab). December 2023-December 2024.

### **Publications**

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#### **Preprints**

1. BJ Gombash, PA Garber, PM Finnegan, AC McKenney, JC Bicca-Marques, MF De La Fuente, F Abreu, A Souto, N Schiel, KR Amato, **EK Mallott**. Diet, climatic conditions, and sex affect the mycobiome of wild common marmosets (*Callithrix jacchus*). bioRxiv 2025.07.06.663406. DOI: 10.1101/2025.07.06.663406.

#### **Peer reviewed**

1. **EK Mallott**, S Kuthyar, W Lee, D Reiman, H Jiang, S Chitta, EA Waters, B Layden, R Sumagin, LD Manzanares, G-Y Yang, ML Savo Sardaro, S Gray, LE Williams, Y Dai, JP Curley, CR Haney, ER Liechty, CW Kuzawa, KR Amato. The primate gut microbiota contributes to interspecific differences in host metabolism. 2024. Microbial Genomics 10:001322. DOI: 10.1099/mgen.0.001322. PMID: 39620695.
2. R Salmi, A Lu, AN Hofner, C Madushan, D Thisaru, **EK Mallott**, R Vandercone. Male infanticide in the Northern purple-faced langur (*Semnopithecus vetulus philbricki*) in the Kaludiyapukuna Forest Reserve, Sri Lanka. 2024. American Journal of Primatology 86:e23693. DOI: 10.1002/ajp.23693. PMID: 39488845.

3. P Finnegan, PA Garber, AC McKenney, JC Bicca-Marques, M De La Fuente, F Abreu, A Souto, N Schiel, KR Amato, **EK Mallott**. Group membership, not diet, structures the composition and functional potential of the gut microbiome in a wild primate. 2024. *mSphere* 9: e00233-24. DOI: 10.1128/msphere.00233-24. PMID: 38940510.
4. T Whitney, **EK Mallott**, LO Diakiw, DM Christie, N Ting, KR Amato, SR Tecot, AL Baden. Ecological and genetic variables co-vary with social group identity to shape the gut microbiome of a pair-living primate. 2024. *American Journal of Primatology* 86: e23657. DOI: 10.1002/ajp.23657. PMID: 38967215.
5. **EK Mallott**, AR Sitarik, LD Leve, C Cioffi, CA Camargo Jr, K Hasegawa, SR Bordenstein. 2023. Human gut microbiome variation associated with race and ethnicity emerges as early as 3 months of age. *PLoS Biology* 21: e3002230. DOI: 10.1371/journal.pbio.3002230. PMID: 37590208.
6. 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? 2023. *American Journal of Biological Anthropology* 182: 606-619. DOI: 10.1002/ajpa.24574.
7. O Chioma, **EK Mallott**, B Shah-Gandhi, Z Wiggins, M Langford, A Lancaster, A Gelbard, H Wu, JE Johnson, WR Mason, L Lancaster, EM Wilfong, LJ Crofford, CG Montgomery, L Van Kaer, SR Bordenstein, DC Newcomb, WP Drake. 2023. Low gut microbial diversity augments estrogen-mediated pulmonary fibrosis in female-predominant interstitial lung disease. *Cells* 12: 766. DOI: 10.3390/cells12050766. PMID: 36899902.
8. TJ Cepon-Robins, **EK Mallott**, IC Recca, TE Gildner. Evidence and effects of neglected parasitic infections among a small preliminary sample of children from rural Mississippi. 2023. *American Journal of Human Biology*. DOI: 10.1002/ajhb.23889. PMID: 36861998.
9. O Chioma, **EK Mallott**, L Hesse, A Chapman, JC Van Amburg, H Wu, B Shah-Gandhi, N Dey, M Kirkland, M Byndloss, MB Piazuelo, J Johnson, GR Bernard, SR Bodduluri, S Davison, H Bodduluri, SR Bordenstein, W Drake. 2022. Gut microbiota modulates lung fibrosis severity following acute lung injury in mice. *Communications Biology* 5: 1401. DOI: 10.1038/s42003-022-04357-x. PMID: 36543914.
10. 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. 2022. *PLoS Biology* 20: e3001758. DOI: 10.1371/journal.pbio.3001758. PMID: 35998206.
11. **EK Mallott**, LH Skovmand, PA Garber, KR Amato. The faecal metabolome of black howler monkeys (*Alouatta pigra*) varies in response to seasonal dietary changes. 2022. *Molecular Ecology* 31: 4146-4161. DOI: 10.1111/mec.16559. PMID: 35665560.
12. 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. 2022. *Frontiers in Ecology and Evolution* 10: 863242. DOI: 10.3389/fevo.2022.863242.
13. 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. 2022. Proceedings of the National Academy of Sciences 119: e2111533119. DOI: 10.1073/pnas.2111533119. PMID: 35312358.

14. **EK Mallott**, KR Amato. Butyrate-producing pathways abundances are similar in human and nonhuman primate gut microbiomes. 2022. Molecular Biology and Evolution 39: msab279. DOI: 10.1093/molbev/msab279. PMID: 34542625.
15. 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*). 2021. American Journal of Primatology 83: e23330. DOI: 10.1002/ajp.23330. PMID: 34529285.
16. KR Amato, **EK Mallott**, P Maia, ML Savo Sardaro. Predigestion as an evolutionary impetus for human use of fermented food. 2021. Current Anthropology 62: S207-S219. DOI: 10.1086/715238.
17. 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 Shantee, A Souto, JP Souza-Alves, S Tecot, F Stewart, A Stone, B Sun, K Valenta, E Vogel, S Wich, Y Zeng. 2021. 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. PMID: 33650680.
18. 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. 2021. Ecology and Evolution 11: 45-57. DOI: 10.1002/ece3.6910. PMID: 33437414.
19. **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. 2020. Scientific Reports 10: 9961. DOI: 10.1038/s41598-020-66865-2. PMID: 32561791.
20. **EK Mallott**, RS Malhi, KR Amato. Assessing the comparability of different DNA extraction and amplification methods in gut microbial community profiling. 2019. Access Microbiology 1. DOI: 10.1099/acmi.0.000060. PMID: 32974545.
21. JS Frankel, **EK Mallott**, LM Hopper, SR Ross, KR Amato. The effect of captivity on the primate gut microbiome varies with host dietary niche. 2019. American Journal of Primatology 81: e23061. DOI: 10.1002/ajp.23061. PMID: 31713260.
22. 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. 2019. Genome Biology 20: 201. DOI: 10.1186/s13059-019-1807-z. PMID: 31590679.
23. A Gomez, A Sharma, **EK Mallott**, K Petrzalkova, 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. 2019. mSphere 4: e00271-19. DOI: 10.1128/mSphere.00271-19. PMID: 31366708.

24. 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. 2019. American Journal of Primatology 81: e23003. DOI: 10.1002/ajp.23003. PMID: 31190348.
25. **EK Mallott**, KR Amato. The microbial reproductive ecology of white-faced capuchins (*Cebus capucinus*). 2018. American Journal of Primatology 80: e22896. DOI: 10.1002/ajp.22896. PMID: 29984842.
26. **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*). 2018. PLoS One 13: e0199556. DOI: 10.1371/journal.pone.0199556. PMID: 29944686.
27. **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*). 2018. American Journal of Physical Anthropology 165: 576-588. DOI: 10.1002/ajpa.23395. PMID: 29313897.
28. 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. 2018. American Journal of Human Genetics 102: 806-815. DOI: 10.1016/j.ajhg.2018.03.008. PMID: 29706345.
29. 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. 2018. Mitochondrial DNA Part B 3: 409-411. DOI: 10.1080/23802359.2018.1456371. PMID: 33474186.
30. 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. 2017. Genes 8: 262. DOI: 10.3390/genes8100262. PMID: 28984839.
31. 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). 2017. Revista Argentina de Antropología Biológica 19: 1-17. DOI: 10.17139/raab.2017.0019.01.06.
32. **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*). 2017. American Journal of Physical Anthropology 162: 241-254. DOI: 10.1002/ajpa.23113. PMID: 27704526.
33. **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 Bolivia. 2015. American Journal of Physical Anthropology 156: 474-481. DOI: 10.1002/ajpa.22654. PMID: 25369770.
34. 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. 2012. DOI: 10.1896/044.019.0101.

### ***Invited Reviews and Commentaries***

1. KR Amato, P Pradhan, **EK Mallott**, W Shirola, A Lu. Host-gut microbiota interactions during pregnancy. 2024. *Evolution, Medicine, and Public Health* 12:7-23. DOI: 10.1093/emph/eoae001. PMID: 38288320.
2. **EK Mallott**. Disentangling the mechanisms underlying phylosymbiosis in mammals. 2024. *Molecular Ecology* 33: e17193. DOI: 10.1111/mec.17193. PMID: 37921987.
3. **EK Mallott**. Individualized composition or community dynamics? A new statistical approach to assess the individuality of host-associated microbiomes. 2022. *Proceedings of the Royal Society B* 289: 20221794. DOI: 10.1098/rspb.2022.1794. PMID: 36350214.
4. **EK Mallott**, KR Amato. Host specificity of the gut microbiome. 2022. *Nature Reviews Microbiology* 19: 639-653. DOI: 10.1038/s41579-021-00562-3. PMID: 34045709.
5. **EK Mallott**, KR Amato. Phylosymbiosis, diet, and gut microbiome associated metabolic disease. 2020. *Evolution, Medicine, and Public Health* 2020: 100-101. DOI: 10.1093/emph/eoaa019. PMID: 32983535.

### ***Book Chapters and Other Contributions***

1. **EK Mallott**. Locus. 2017. 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.
2. **EK Mallott**. Somatic Cell. 2017. 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.

## **Professional Talks and Conference Presentations**

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### ***Invited Departmental Seminars***

Center for Reproductive Health Sciences at WashU (November 2023); University of Pennsylvania (October 2023); Digestive Disease Research Core Center at WashU (January 2023); Living Earth Collaborative Seminary at WashU (November 2022); Univ. of Cal. Santa Barbara (March 2022); Washington Univ. in St. Louis (March 2022); Univ. of North Carolina (February 2022); Tulane Univ. (February 2022); American University (December 2021); Univ. of North Carolina (March 2021); Univ. of Minnesota (January 2020); Boston Univ. (January 2020); Loyola Univ. Chicago (March 2019); Kent State Univ (February 2019); Univ. of Cambridge (September 2018); Loyola Stritch Medical School (May 2018); Univ. of Nebraska Omaha (February 2018); Univ. of North Carolina Charlotte (December 2017)

### ***Other Invited Talks***

EK Mallott. Impacts of flooding and infrastructure neglect on the human gut microbiome. Invited keynote speaker, 2024 Beneficial Microbes bi-annual conference in Madison, WI. July 2024.

EK Mallott. Dietary diversity and gut microbial plasticity in platyrrhine monkeys. Invited speaker, Wild Animal Microbiome Evolution Strategic Network seminar series of the European Society of Evolutionary Biology. Virtual. December 2022.

EK Mallott. The microbial reproductive ecology of primates. Invited keynote speaker, Living Earth Collaborative mDivE symposium, St. Louis, MO. October 2022.

EK Mallott. Host specificity of the microbiome. Invited speaker in the *Pathogen competition and co-evolution in the microbiome* symposium, European Congress of Clinical Microbiology and Infectious Disease annual meeting, Lisbon, Portugal. April 2022.

EK Mallott. Social and environmental factors associated with human microbiome variation. Invited speaker, Microbiome Centers Consortium Seminar Series. Virtual. March 2022.

EK Mallott. Metabolic contributions of the gut microbiome to the brain. Invited speaker in the *Microbiome and neurologic disease risk* symposium, International Society for Evolution, Medicine, and Public Health annual meeting, Zurich, Switzerland. August 2019.

### **Other Presentations and Posters**

(# = WUSTL undergraduate; %: graduate student or postdoctoral mentee)

**EK Mallott**, M Turk, B Gombash, D Hernandez, K Grathwohl, D Thisaru, A Lu, R Salmi, R Vandercone. Host hybridization and the gut microbiome of two sympatric langur monkeys. Poster presented at the Gordon Research Conference on Ecological and Evolutionary Genomics in Lucca, Italy. July 2025.

C Chaney%, TE Gildner, TJ Cepon-Robins, K Grathwohl, S Wang#, J Ong#, L Kwak#, K Betts#, J Beauregard, KL Nemeth, Sophie Waimon#, A Zhang#, Alex Shing#, M Pfaff-Nash, A Samsonov, SS Urlacher, **EK Mallott**. Elucidating the causal pathway linking social determinants of health to changes in the gut microbiome through inflammatory pathways in two low-resource U.S. communities. Talk presented at the Human Biology Association annual meeting, Baltimore, MD. March 2025.

**EK Mallott**, M Turk, D Thisaru, A Lu, R Salmi, R Vandercone. The composition and function of the gut microbiome of two sympatric langur monkeys, *Semnopithecus vetulus* and *S. priam*. Talk presented at the American Society of Primatology annual meeting, Riviera Maya, Mexico. September 2024.

BJ Gombash%, PA Garber, PM Finnegan, AC McKenney, JC Bicca-Marques, MF de la Fuente, F Abreu, A Souto, N Schiel, KR Amato, **EK Mallott**. Diet, sampling season, and sex effect the mycobiome of common marmosets (*Callithrix jacchus*) from Brazil. Poster presented at the American Society of Primatology annual meeting, Riviera Maya, Mexico. September 2024.

C Chaney%, TE Gildner, TJ Cepon-Robins, K Grathwohl, A Samsonov, S Wang#, A Shing#, S Waimon#, J Ong#, L Kwak#, K Betts#, JB Thomas, KL Nemeth, A Zhang#, **EK Mallott**. Characterizing population variation in beta diversity across two infrastructurally similar populations in the U.S. Poster presented at the American Society for Microbiology Microbe annual meeting, Atlanta, GA. June 2024.

C Chaney%, TE Gildner, TJ Cepon-Robins, K Grathwohl, S Wang#, J Ong#, L Kwak#, K Betts#, JB Thomas, KL Nemeth, S Waimon#, A Zhang#, AB Shing#, A Samsonov, **EK Mallott**. Embodiment of water infrastructure: Gut microbiome characteristics and flooding in two U.S. communities. Poster presented at the Human Biology Association annual meetings, Los Angeles, CA. April 2024.

S Wang#, TE Gildner, TJ Cepon-Robins, C Chaney%, K Grathwohl, J Ong#, L Kwak#, K Betts#, JB Thomas, KL Nemeth, S Waimon#, A Zhang#, AB Shing#, A Samsonov, **EK Mallott**. Rural embodiment and community health study (REACH): Associations between water source and gut microbiome diversity in a low-resource U.S. community. Poster presented at the Human

Biology Association annual meetings, Los Angeles, CA. April 2024.

- EK Mallott.** Gut eukaryome variation and gut microbial eukaryote-bacteria interactions in platyrrhine monkeys. Poster presented at the Gordon Research Conference on Animal-Microbe Symbioses in Lucca, Italy. June 2023.
- 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. Talk presented at the American Association of Biological Anthropology annual meetings, virtual. April 2021.
- EK Mallott.** Diet and the gut microbiome of platyrrhine monkeys. Presented at the Mammalian Microbiome Seminar (virtual postdoc-organized conference). 2020.
- 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. Talk presented at the American Society of Primatologists annual meeting, Madison, WI. June 2019.
- EK Mallott,** KR Amato. Variation in butyrate-production pathways across human and nonhuman primates. Poster presented at the Gordon Research Conference on Ecological and Evolutionary Genomics, Manchester, NH. June 2019.
- EK Mallott,** KR Amato. Variation in butyrate-production pathways across human and nonhuman primates. Talk presented at the Congress on Gastrointestinal Function, Chicago, IL. April 2019.
- EK Mallott,** KR Amato. Variation in butyrate-production pathways across human and nonhuman primates. Talk presented at the American Association of Biological Anthropology annual meetings, Cleveland, OH. April 2019.
- EK Mallott,** KR Amato. The microbial reproductive ecology of white-faced capuchins (*Cebus capucinus*). Talk presented at the Maternal Infant Microbiome Symposium, University of Chicago, Chicago, IL. 2018.
- EK Mallott,** KR Amato. Seasonal changes in the metabolome of wild black howler monkeys (*Alouatta pigra*). Poster presented at the American Association of Biological Anthropology annual meetings, Austin, TX. April 2018.
- EK Mallott,** PA Garber, RS Malhi, KR Amato. Relationship between reproductive status and gut microbial composition in white-faced capuchins (*Cebus capucinus*). Talk presented at the Midwest Primate Interest Group meeting, Northwestern University, Evanston, IL. October 2017.
- EK Mallott,** PA Garber, RS Malhi, KR Amato. Relationship between reproductive status and gut microbial community composition in white-faced capuchins (*Cebus capucinus*). Talk presented at the American Association of Biological Anthropology annual meetings, New Orleans, LA. April 2017.
- 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. August 2016.



- EK Mallott**, PA Garber, RS Malhi. Dietary correlates of gut microbiome composition in white-faced capuchins (*Cebus capucinus*). Talk presented at the American Association of Biological Anthropology annual meetings, Atlanta, GA. April 2017.
- 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. October 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. August 2015.
- EK Mallott**, E Clausing, RS Malhi. Use of high-throughput sequencing to investigate white-faced capuchin prey choice. Talk presented at the American Association of Biological Anthropology annual meetings, St. Louis, MO. April 2015.
- 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. October 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. Talk presented at the American Society of Primatologists annual meeting, Decatur, GA. June 2014.
- EK Mallott**. Influence of variation in arthropod availability on the foraging ecology of white-faced capuchin monkeys (*Cebus capucinus*). Talk presented at the American Association of Biological Anthropology annual meetings, Atlanta, GA. April 2014.
- 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. October 2012.
- 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*. Poster presented at the American Society of Primatologists annual meeting, Louisville, KY. June 2010.
- 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. October 2011.
- 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. Poster presented at the American Society of Primatologists annual meeting, West Palm Beach, FL. June 2008.
- 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. October 2005.

## Awards

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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
2011	National Science Foundation Graduate Research Fellowship

## Teaching

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Semester	Course	Responsibilities
Spring 2023	Biology 349: Fundamentals of Microbiology, 4 credits	Co-Instructor; 100 undergraduates
Fall 2023	Biology 3171: Biology for Climate Change Solutions	Co-Instructor (1 of 4); 12 students
Spring 2024	Biology 349: Fundamentals of Microbiology, 4 credits	Co-Instructor; 82 undergraduates
Spring 2025	Biology 349: Fundamentals of Microbiology, 4 credits	Coursemaster; 61 undergraduates

## Student Advising and Supervision

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### ***Mentees***

#### *Postdoctoral trainees*

Benjamin Gombash (2023-present)

Carlye Chaney (2023-2025, currently an Assistant Professor at the University of Missouri)

#### *PhD advisees*

David Hernandez (EEB, 2024-present)

Ting-Shuo (Bryce) Nien (PMB, 2025-present)

Tasman Rosenfeld (EEB, 2025-present)

#### *PhD rotation students*

Ting-Shuo (Bryce) Nien (PMB, Spring 2025); Tasman Rosenfeld (EEB, Fall 2024); David Hernandez (EEB, Summer 2024)

#### *Undergrad research mentoring*

Ingrid Lyons-Carlson (2025-present), Mimi Regier (2024-present); Juliet Ainsley (Center for the Environment Summer Research Scholar, 2024-present); Dev Mukundan (2024-present); Simone Hotter (2024, currently a senior at Brandeis University); Leena Kwak (2023-present); Shan Wang (Harrison D. Stalker Award winner, 2023-2024, currently a Medical Assistant at Piedmont Health Services); Jennifer Ong (2022-present); Kaylaa Betts (2022-2023, currently an Undergraduate Research Assistant in the Bose Lab at WashU).

### ***Qualifying exam committees***

Noah Clayton (EEB, 2025); Dong-gyu Kim (PMB, 2024); Kyra Raines (MMMP, 2024); Brian Gallagher (PMB, 2023)

### ***Thesis committees***

Brian Gallagher (PMB); Philippa Tanford (EEB); Israt Jahan (EEB); Calum Stephenson (EEB); Mahal Bugay (EEB); Vibert Putra (MMMP); Jason Wever (MGG)

## Service

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### ***Biology Department Service***

2024-present	Biology Faculty Search Committee, Member, Rules of Life Cluster Hire
2023-present	WashU Undergraduate ASM Chapter, Faculty Advisor
2022-present	Curriculum Committee, Member
2023	Biology Faculty Excellence Task Force, Member
2023	Spector and Quatrano Award Committee, Member

### ***Division of Biology & Biomedical Sciences Service***

2022-present	EEB Admissions Committee
2022-present	EEB Steering Committee
2024-present	PMB Admissions Committee

### ***Professional Societies***

2023-Present	American Society for Microbiology
2019-Present	International Society for Evolution, Medicine, and Public Health
2018-Present	International Primatological Society
2013-Present	American Association of Anthropological Genetics
2010-Present	American Association of Biological Anthropologists
2007-Present	American Society of Primatologists

### ***Conferences/Meeting/Workshop Organization***

2023	Program Committee, International Society for Evolution, Medicine, and Public Health annual meeting, Los Angeles, CA
2021-2023	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

### ***Scientific Review and Service***

#### *Journals*

*Reviewer:* American Journal of Biological Anthropology, American Journal of Primatology, Animal Behaviour, Animal Microbiome, Current Biology, Current Zoology, eLife, Ecology and Evolution, Environmental Microbiology, Evolutionary Anthropology, International Journal of Primatology, Microbiome, Molecular Ecology, mSphere, mSystems, Nature Communications, Oecologia, PeerJ, PLoS One, Proceedings of the Royal Society B, Royal Society Open Science, Scientific Reports, Trends in Microbiology, Wildlife Research

#### *Grants*

*Ad-hoc reviewer (~4 grants reviewed annually):* National Science Foundation, National Institutes of Health (The Leakey Foundation, FWF Austrian Science Fund, Israeli Science Foundation

## Outreach

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2025-present	Scientific advisor, Resident-led water quality testing program, Cahokia Heights, IL.
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.