

SIERRA J GILLMAN

NSF Graduate Research Fellow | ARCS Scholar Fellow | Ph.D. Student
School of Environmental and Forest Sciences, University of Washington
Email: sgillm@uw.edu

Education

- UNIVERSITY OF WASHINGTON, Seattle, WA June 2020-Present
- Ph.D. Student, Quantitative Ecology; Advisor: Dr. Beth Gardner
 - Dissertation Topic: Identification of marine bird and mammal hotspots and cold-spots in Puget Sound
- NORTHERN MICHIGAN UNIVERSITY, Marquette, MI August 2018-May 2020
- M.S. Biology; Advisor: Dr. Diana Lafferty
 - Thesis Topic: The gut microbiota of wild American black bear (*Ursus americanus*) population
- FLORIDA STATE UNIVERSITY, Tallahassee, FL August 2009-May 2013
- B.S. Biology and Environmental Studies (Double Major)
 - Minor Chemistry

Peer-Reviewed Publications

- Lafferty, D.J.R., **Gillman, S.J.**, Jeakle, L.K., Roell, B.J., McKenney, E.A., 2022. Mink (*Neovison vison*) fecal microbiome are influenced by sex, temperature, and time post-defecation. *Journal of Mammalogy*, 1–12, 2022. gyab140
- Gillman, S.J.**, McKenney, E.A. and Lafferty, D.J.R., 2021. Human-provisioned foods reduce gut microbiome diversity in American black bears (*Ursus americanus*). *Journal of Mammalogy*. gyab154 (Master's Thesis Chapter)
- Sanderfoot, O.V., Bassing, S.B., Brusa, J.L., Emmet, R.L., **Gillman, S.J.**, Swift, K. and Gardner, B., 2021. A review of the effects of wildfire smoke on the health and behavior of wildlife. *Environmental Research Letters*.
- Gillman, S.J.**, McKenney, E.A. and Lafferty, D.J., 2020. Wild black bears harbor simple gut microbial communities with little difference between the jejunum and colon. *Scientific Reports*, 10(1), pp.1-11. (Master's Thesis Chapter)
- Gillman, S.J.**, Ziegler-Meeks, K., Eager, C., Tenhundfeld, T.A., Shaffstall, W., Stearns, M.J. and Crosier, A.E., 2017. Impact of mimicking natural dispersion on breeding success of captive North American Cheetahs (*Acinonyx jubatus*). *Zoo biology*, 36(5), pp.332-340.

Manuscripts Under Peer-Review

- Lafferty, D.J.R., McKenney, E.A., **Gillman, S.J.**, Kailing, C.D., Walimaa, M.A., Kailing, M.J., Roell, B.J. The gut microbiome of American marten: implications for carnivore conservation. *In peer-review in PLOS ONE*

Fellowships

- 2020 ***Achievement Rewards for College Scientists (ARCS) Foundation Fellowship***
- 2020 Dorothea and Ernest Knoblauch Endowed Fellowship
- 2020 University of Washington's School of Environment and Forest Sciences Recruitment Fellowship
- 2019 ***National Science Foundation Graduate Research Fellowship***
- 2018 - 2019 Northern Michigan University Department of Biology's Graduate Teaching Assistantship

Awards

- 2020 Northern Michigan University Outstanding Graduating Graduate Student – Department of Biology

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- 2020 Richard D. Taber Wildlife Science Endowed Student Support Fund
- 2019 1st Place Graduate Student Poster at Northern Michigan University's Celebration of Student Sciences
- 2019 Sigma Xi's Grant in Aid of Research
- 2019 Northern Michigan University's Spooner Student Research Fund
- 2019 William L. Robinson Scholarship Fund
- 2019 Northern Michigan University's Graduate Education and Research Special Project Fund
- 2018 Northern Michigan University Department of Biology's Development Fund
- 2018 Northern Michigan University's Spooner Student Research Fund

Teaching/Mentorship

- 2020 - 2021 School of Environmental Forest Sciences' NSF GRFP mentor/mentee program
- 2018 - 2019 Teaching Assistant, Department of Biology, Northern Michigan University: Principles of Ecology Lab
- 2018 - 2020 Mentorship of undergraduate/graduate students: How to use R and QIIME2
- 2018 - 2020 Mentorship of undergraduate students: Writing CV's and applying to wildlife jobs/graduate school
- 2018 - 2020 Leader of Workshop: Microbial DNA extraction methods at Northern Michigan University
- 2012 - 2013 Teaching Assistant, Department of Biology, Florida State University: Introduction to Biology

Presentations/Posters

- 2021 Lafferty, D.J.R., **Gillman, S.J.**, et al "Wild boar gut microbiome dynamics are driven by gut site location and radiation dose in the Fukushima Difficult-to-Return Zone", IER Internal Symposium, virtual-Poster
- 2020 **Gillman, S.J.**, "Wild black bears harbor simple gut microbial communities with little differences between jejunum and colon," Mammalian Microbiome Seminar, Virtual
- 2019 **Gillman, S.J.**, McKenney, E.A., Lafferty, D.J.R., "Feeding the beast: are human foods another pressure on wildlife health?", TWS/AFS Joint National Conference, Reno, NV- Oral Presentation
- 2019 Lafferty, D.J.R, McKenney, E.A., Kailing, M.J., **Gillman, S.J.**, Bergquist, A.M., Kailing, C., Walimaa, M., "Altruism and inclusion: training the next generation of wildlife ecologists in the art of scientific collaboration." TWS/AFS Joint National Conference, Reno, NV- Oral Presentation
- 2019 **Gillman, S.J.**, McKenney, E.A., Lafferty, D.J.R., "Feeding the beast: are human foods another pressure on wildlife health?", *Awarded first place for graduate poster*, Celebration of Student Scholarship, Northern Michigan University, Marquette, MI- Poster
- 2019 Kailing, C., **Gillman, S.J.**, Jeakle, L., Wilimaa, M., Lafferty, D.J.R., "Influence of habitat structure on the diet and microbiome of American Marten.", *Awarded third place for undergraduate poster*, Celebration of Student Scholarship, Northern Michigan University, Marquette, MI - Poster