

# Daniel C. Suh

Postdoctoral Researcher

## Curriculum Vitae

December 2025

📍 Network Science Institute, Northeastern University  
✉ d.suh@northeastern.edu

- Disease ecologist at Northeastern University

## Education

2019 - 2024	<b>Ph.D. Ecology</b> Athens GA, USA	University of Georgia
2012 - 2016	<b>B.S. Biology</b> Malibu CA, USA	Pepperdine University

## Research Experience

12.2025 - Present	<b>Postdoctoral Researcher</b> Boston, MA	Network Science Institute, Northeastern University
	➤ I use mathematical and computational methods to study the effects of environmental factors on the transmission of arboviruses.	
8.2024 - 11.2025	<b>Postdoctoral Researcher</b> Blacksburg, VA	Department of Biological Sciences, Virginia Tech
	➤ I studied the emergence of novel pathogens in wildlife host populations. Using SARS-CoV-2, I analyzed the factors that influence the transmission of pathogens from humans into wildlife and the capacity for these pathogens to circulate within and adapt to these populations.	
8.2019 - 7.2024	<b>Graduate Student</b> Athens, GA	Odum School of Ecology, University of Georgia
	➤ I studied the effects of abiotic and biotic factors on the transmission of generalist parasites. I use multiple study systems such as ranavirus in amphibians and fungal parasites in freshwater zooplankton populations and mechanistic 'SIR' models to study transmission at the population and community scale. I also study the evolution of host-parasite relationships at a global, macroecological scale by applying machine learning methods to large-scale host-parasite association data.	
4.2018 - 6.2019	<b>Research Assistant</b> Philadelphia, PA	Department of Biostatistics, Epidemiology, and Informatics, University of Pennsylvania
	➤ I worked with the Levy lab maintaining the experimental bed bug colony. The bed bugs were used as a local study system that could be compared to the lab's research on Chagas disease and kissing bugs in Peru.	
5.2014 - 10.2016	<b>Research Assistant</b> Malibu, CA	Natural Science Division, Pepperdine University
	➤ I worked in the Kats lab studying freshwater ecology in the Santa Monica mountains. Projects included benthic macroinvertebrate stream surveys to assess stream health, long-term tracking of California Newts, and experimental assessments of effects of invasive crayfish on local populations.	

## Awards/Fellowships

2023	<b>Fulbright Finalist, Awarded and declined</b> Fulbright US Student Program - Research Award - South Korea (₩25,000,000)
2023	<b>Golley Memorial Scholarship Awardee</b> Odum School of Ecology Golley Memorial Scholarship (\$1,000)
2021 - 2024	<b>NSF Fellow</b> NSF Graduate Research Fellowship Program (\$138,000)
2019 - 2021	<b>NSF Trainee</b> Interdisciplinary Disease Ecology Across Scales NSF-NRT Training Grant (\$68,000)

## Publications

1. Molinero, C., Brown, C. H., Odom, T. L., Suh, D. C., & Park, A. W. (2025). Bird Community Composition, Migration, and Environmental Factors Jointly Influence the Global Distribution of Avian Haemosporidian Lineages. *Integrative Zoology*, 1749–4877.70004. <https://doi.org/10.1111/1749-4877.70004>
2. Suh, D. C., Schroeder, K., & Strauss, A. T. (2025). Temperature and Resources Interact to Affect Transmission via Host Foraging Rate and Susceptibility. *Ecology Letters*, 28(6), e70151. <https://doi.org/10.1111/ele.70151>
3. Suh, D. C., Schroeder, K., Landolt, E. F., Tejada, J., & Strauss, A. T. (2025). A legacy of competitive exclusion: Host demography and amplified disease. *Integrative And Comparative Biology*, icaf035. <https://doi.org/10.1093/icb/ica035>
4. Suh, D. C., Lance, S. L., & Park, A. W. (2024). Abiotic and biotic factors jointly influence the contact and environmental transmission of a generalist pathogen. *Ecology and Evolution*, 14(8), e70167. <https://doi.org/10.1002/ece3.70167>
5. Strauss, A. T., Suh, D. C., Galbraith, K., Coker, S. M., Schroeder, K., Brandon, C., Warburton, E. M., Yabsley, M. J., & Cleveland, C. A. (2023). Mysterious microsporidians: Springtime outbreaks of disease in *Daphnia* communities in shallow pond ecosystems. <https://doi.org/10.1007/s00442-023-05421-x>
6. Bucciarelli, G. M., Suh, D., Lamb, A. D., Roberts, D., Sharpton, D., Shaffer, H. B., Fisher, R. N., & Kats, L. B. (2019). Assessing effects of non-native crayfish on mosquito survival. <https://doi.org/10.1111/cobi.13198>

## Presentations

Summer 2025	<b>Poster: Human transmission predicts seasonal trends in SARS-CoV-2 infections in wildlife hosts</b> Ecology and Evolution of Infectious Diseases - University of Notre Dame, IN
Spring 2025	<b>Talk: Temperature and resources interact to affect transmission via host foraging rate and susceptibility</b> Department of Mathematics, Virginia Tech, MathBio seminar Invited Speaker - Blacksburg, VA
Summer 2024	<b>Talk: Temperature and resource conditions jointly influence transmission of <i>Metschnikowia bicuspidata</i> in <i>Daphnia dentifera</i></b> Ecological Society of America - Long Beach, CA
Spring 2024	<b>Talk: Interactive effects of temperature and resources on transmission</b> University of Georgia Center for the Ecology of Infectious Diseases Workshop - Athens, GA
Summer 2023	<b>Talk: Patterns in Parasite Species Richness across host life history, ecology, and geography</b> Ecological Society of America - Portland, OR
Summer 2022	<b>Talk: Temperature and resource conditions jointly influence the infection of <i>Daphnia dentifera</i> by the fungal parasite <i>Metschnikowia bicuspidata</i></b> Ecological Society of America - Montreal, Canada
Summer 2021	<b>Talk: Community composition, abundance, and environmental conditions may enhance transmission of a Ranavirus in larval amphibian communities</b> Ecological Society of America - Virtual
Summer 2021	<b>Poster: Host community evenness and community competence can inform mechanisms in diversity-disease relationships</b> Ecology and Evolution of Infectious Diseases - Virtual
Spring 2021	<b>Talk: Species richness, species evenness, and community competence of larval amphibian communities</b> Odum School of Ecology Graduate Student Symposium - Virtual
Summer 2020	<b>Poster: Exploring the Differential Competence of Communities: Observations of Ranavirus in Larval Amphibian Communities</b> Ecological Society of America - Virtual
Spring 2021	<b>Talk: Differential Competence of Communities</b> Odum School of Ecology Graduate Student Symposium - Virtual
Summer 2016	<b>Poster: The impact of turbidity on the predator-prey relationship between Red Swamp Crayfish (<i>Procambarus clarkii</i>) and Pacific Tree Frog (<i>Pseudacris regilla</i>) tadpoles</b> Society for Freshwater Science - Sacramento, CA

## Service

1.2021 - 7.2024	<b>Author</b> Athens Science Observer
9.2019 - 7.2024	<b>Member</b> EcoReach
8.2022 - 8.2023	<b>Direct of Internal Operations</b> UGA Graduate Student Association

8.2021 - 8.2023	<b>Student Representative</b> OSE Graduate Program Committee
9.2021 - 5.2022	<b>OSE Representative</b> UGA Graduate Student Association
8.2021 - 8.2022	<b>Treasurer</b> EcoReach
1.2021 - 5.2023	<b>Mapping WG Chair</b> Center for the Ecology of Infectious Diseases
9.2020 - 5.2021	<b>Treasurer</b> OSE Graduate Student Organization
8.2020 - 7.2021	<b>Graduate Student Representative</b> IDEAS Committee
9.2019 - 5.2020	<b>OSE Representative</b> UGA Graduate Student Association

## Teaching

Summer 2023	<b>Instructor</b> Population Biology of Infectious Diseases REU - Simulating Infectious Diseases with R Workshop
Fall 2021	<b>Instructor</b> CEID Mapping Working Group - Mapping in R Weekend Workshop

## Other Work Experience

3.2023 - Present	<b>R Instructor</b> Remote	Applied Epi
3.2019 - 7.2019	<b>Tutor</b> West Caldwell, NJ	C2 Education
1.2018 - 2.2019	<b>AmeriCorps Team Leader</b> Philadelphia PA, USA	City Year Philadelphia
11.2016 - 11.2017	<b>AmeriCorps VISTA</b> Brunswick ME, USA	Mid Coast Hunger Prevention Program
9.2012 - 6.2016	<b>Prospect Research Assistant</b> Malibu, CA	University Advancement, Pepperdine University

## Skills

Advanced Proficient	<b>R</b> tidyverse, ggplot2, deSolve, Caret, gbm
Proficient	<b>Github</b> version control, collaboration, Pages
Beginner	<b>Python</b> Numpy, Pandas, SciPy, Matplotlib