

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	Ph.D. Ecology Athens GA, USA	University of Georgia
2012 - 2016	B.S. Biology Malibu CA, USA	Pepperdine University

Research Experience

12.2025 - Present	Postdoctoral Researcher 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	Postdoctoral Researcher 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	Graduate Student 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	Research Assistant 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	Research Assistant 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	Fulbright Finalist, Awarded and declined Fulbright US Student Program - Research Award - South Korea (₩25,000,000)
2023	Golley Memorial Scholarship Awardee Odum School of Ecology Golley Memorial Scholarship (\$1,000)
2021 - 2024	NSF Fellow NSF Graduate Research Fellowship Program (\$138,000)
2019 - 2021	NSF Trainee 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/icaf035>
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 **Poster: Human transmission predicts seasonal trends in SARS-CoV-2 infections in wildlife hosts**
Ecology and Evolution of Infectious Diseases - University of Notre Dame, IN

Spring 2025 **Talk: Temperature and resources interact to affect transmission via host foraging rate and susceptibility**
Department of Mathematics, Virginia Tech, MathBio seminar Invited Speaker - Blacksburg, VA

Summer 2024 **Talk: Temperature and resource conditions jointly influence transmission of *Metschnikowia bicuspidata* in *Daphnia dentifera***
Ecological Society of America - Long Beach, CA

Spring 2024 **Talk: Interactive effects of temperature and resources on transmission**
University of Georgia Center for the Ecology of Infectious Diseases Workshop - Athens, GA

Summer 2023 **Talk: Patterns in Parasite Species Richness across host life history, ecology, and geography**
Ecological Society of America - Portland, OR

Summer 2022 **Talk: Temperature and resource conditions jointly influence the infection of *Daphnia dentifera* by the fungal parasite *Metschnikowia bicuspidata***
Ecological Society of America - Montreal, Canada

Summer 2021 **Talk: Community composition, abundance, and environmental conditions may enhance transmission of a Ranavirus in larval amphibian communities**
Ecological Society of America - Virtual

Summer 2021 **Poster: Host community evenness and community competence can inform mechanisms in diversity-disease relationships**
Ecology and Evolution of Infectious Diseases - Virtual

Spring 2021 **Talk: Species richness, species evenness, and community competence of larval amphibian communities**
Odum School of Ecology Graduate Student Symposium - Virtual

Summer 2020 **Poster: Exploring the Differential Competence of Communities: Observations of Ranavirus in Larval Amphibian Communities**
Ecological Society of America - Virtual

Spring 2021 **Talk: Differential Competence of Communities**
Odum School of Ecology Graduate Student Symposium - Virtual

Summer 2016 **Poster: The impact of turbidity on the predator-prey relationship between Red Swamp Crayfish (*Procambarus clarkii*) and Pacific Tree Frog (*Pseudacris regilla*) tadpoles**
Society for Freshwater Science - Sacramento, CA

Service

1.2021 - 7.2024 **Author**
Athens Science Observer

9.2019 - 7.2024 **Member**
EcoReach

8.2022 - 8.2023 **Direct of Internal Operations**
UGA Graduate Student Association

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

Teaching

Summer 2023	Instructor	
	Population Biology of Infectious Diseases REU - Simulating Infectious Diseases with R Workshop	

Fall 2021	Instructor	
	CEID Mapping Working Group - Mapping in R Weekend Workshop	

Other Work Experience

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

Skills

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