

## SECTION IV: VITA

### I. ACADEMIC HISTORY

- 1. Name:** Alexander T. Strauss  
**2. Present rank:** Assistant Professor **Recommended rank:** Assistant Professor  
**Department:** Odum School of Ecology  
**3. Allocation of effort (1.00 EFT):** Instruction: 0.33; Research: 0.60; Service: 0.07  
**4. Tenure status:** On tenure track  
**5. Administrative title:** None  
**6. Graduate faculty status:** Active, first appointed August 2020  
**7. Highest degree:** PhD in Ecology, Evolution and Behavior, Indiana University, 2016  
**8. List of academic positions:**  
8/20-present: *Assistant Professor*, Odum School of Ecology, University of Georgia  
5/17-7/20: *Postdoctoral Associate*, U. Minnesota & Nat. Socio-Env. Synthesis Center (SESYNC)  
1/18-4/17: *Postdoctoral Associate*, Indiana University  
8/11-12/17: *NSF GRFP Fellow, Teaching Assistant, and Final Year Fellow*, Indiana University  
**9. Other professional employment:**  
10/08-5/11: *Undergraduate Lab Technician*, Chase Lab, Washington University in St. Louis  
**10. Post-graduate awards:**  
2024: Outstanding Teaching Faculty, Odum School of Ecology, University of Georgia  
2022: Lilly Teaching Fellowship, University of Georgia  
2019: JBS Haldane Early Career Award, British Ecological Society  
2017: Thomas M. Frost Award for Graduate Research, Ecological Society America, Aquatic Section  
2016: Floyd/Ogg/Cleland Final Year Fellowship Award, Indiana University  
2015: Outstanding Paper Award, Ecological Society of America, Disease Ecology Section  
2015: Floyd Plant & Fungal Biology Summer Fellowship Award, Indiana University  
2014: Doctoral Dissertation Improvement Grant Award, NSF  
2013: David G. Frey Memorial Fund Award  
2012: Floyd Plant & Fungal Biology Summer Fellowship Award, Indiana University  
2011: Graduate Research Fellowship Program (GRFP) Award, NSF  
2011: Biology Department Research Recruitment Fellowship Award, Indiana University

### II. INSTRUCTION

#### 1. Courses taught

Dr. Strauss regularly teaches undergraduate and graduate courses (Table 1). Labs and lectures are listed separately since enrollment often differs; summary does not include supervised undergraduate research, graduate research, lab group meetings, or guest lectures.

**TABLE 1: SUMMARY OF COURSES TAUGHT AT UGA**

Course (ECOL)	Responsibility <sup>1</sup>	Course Title <sup>2</sup>	Term	Enroll. <sup>3</sup>	Course Credit	Cred. Hours
4000/ 6000	100	Pop. & Comm. Ecology	F 2024	38	3	114
4000L/6000L	100	Pop. & Comm. Ecology Lab	F 2024	9	1	9
4310/ 6310	50	Freshwater Ecosystems	F 2024	37	3	55.5
4310L/ 6310L	50	Freshwater Ecosystems Lab	F 2024	23	1	11.5
4000/ 6000	100	Pop. & Comm. Ecology	F 2023	32	3	96
4310/ 6310	50	Freshwater Ecosystems	F 2022	30	3	45
4310L/ 6310L	50	Freshwater Ecosystems Lab	F 2022	18	1	9
4150/ 6150	50	Pop. Bio. Infect. Disease Lab	S 2023	24	1	12

4150/ 6150	50	Pop. Bio. Infect. Disease	S 2023	24	3	36
4150L/ 6150L	50	Pop. Bio. Infect. Disease Lab	S 2022	36	1	18
4150/ 6150	50	Pop. Bio. Infect. Disease	S 2022	36	3	54
4000/ 6000	50	Pop. & Comm. Ecology	F 2021	28	3	42
4310L/ 6310L	50	Freshwater Ecosystems Lab	F 2021	19	1	9.5
4310/ 6310	50	Freshwater Ecosystems	F 2021	34	3	51
4150L/ 6150L	50	Pop. Bio. Infect. Disease Lab	S 2021	42	1	21
4150/ 6150	50	Pop. Bio. Infect. Disease	S 2021	43	3	64.5
4000/ 6000	50	Pop. & Comm. Ecology	F 2020	27	3	40.5
8000	083	Topics in Modern Ecology	F 2020	13	3	3.25

1: Responsibility = percent teaching responsibility. 2: Abbreviated titles: Pop. & Comm. Ecology = Population and Community Ecology; Pop. Bio. Infect. Disease = Population Biology of Infectious Disease. 3: Enroll. = Enrollment.

#### GUEST LECTURES

- 2024: Disease in Aquatic Food Webs. FYOS 61396: Ecology of Infectious Diseases (J. Drake)
- 2023: Host & Parasite Evolution. REU Program Lecture Series
- 2023: Microparasites. REU Program Lecture Series
- 2022: Disease in Aquatic Food Webs. FYOS 54924: Ecology of Infectious Diseases (J. Drake)
- 2020: Disease Ecology. Ecology 3500 (Prof. A. Injaian)

## **2. Development of new courses and teaching resources**

#### NEW COURSES

- ECOL 4000L/6000L: Population and Community Ecology Lab (2024)

#### COURSE RE-DESIGN (TEACHING INNOVATIONS)

- ECOL 4000/6000: Population and Community Ecology (*flipped classroom; scaffolded problem sets; i-clicker formative assessments; peer-graded group project; jigsaw paper discussions; individual whiteboards for sketching graphs and deriving equations in class*)
- ECOL 4150/6150: Population Biology of Infectious Disease (*new topics; recorded lectures; new case studies; in-class activities*)
- ECOL 4150L/6150L: Population Biology of Infectious Disease Lab (*red queen card game; 3-week wet lab experiment with invertebrate hosts & data analysis module*)
- ECOL 4310/6310: Freshwater Ecosystems (*flipped classroom; jigsaw paper discussions; in-class think-pair-shares; synthesis writing activities in lieu of traditional exams*)
- ECOL 4310/6310L: Freshwater Ecosystems Lab (*revised all content including field sampling expeditions and 3-week wet lab mesocosm experiment & data analysis module*)

#### TEACHING RESOURCES

- 2024: "Teaching Tips" presentation at faculty meeting on Jigsaw paper discussions

## **3. Supervision of graduate student research**

- 2023-present: (Ph.D. Ecology): James Oni, UGA
- 2023-present: (M.S. Ecology): Kelly Mayes, UGA
- 2021-present: (Ph.D. Ecology): Katherine Schroeder, UGA

## **4. Graduate student advisory committee membership**

- 2024-present (M.S. Ecology): Nina Simone Warner, University of Georgia
- 2024-present (M.S. Ecology): Jacob Lott, University of Georgia
- 2024-present (PhD. Ecology): Anna Bushong, University of Georgia
- 2024-present (M.S. Ecology): Josiah Kaderis, University of Georgia
- 2024-present (M.S. Ecology): Marilee Hoyle, University of Georgia
- 2023-present: (Ph.D. Population Biology, Ecology, and Evolution): Nadia Raytselis, Emory U.

- 2022-present: (Ph.D. Ecology): Brandon Haile, University of Georgia
- 2022-2024: (M.S. Forestry and Natural Resources): Kelly Holland, University of Georgia
- 2021-2024: (Ph.D. Ecology): Daniel Suh, University of Georgia

#### **5. Supervision of undergraduate research & grants awarded to UGA mentees (14)\***

- 2024: Reina Scott: CURO Summer Fellowship & CURO Research Award, UGA
- 2024: Emilie Dudgeon: CURO Research Award (2x), UGA
- 2024: Ava McCain: CURO Research Award, UGA
- 2024: Avery Akins: Independent Research (ECOL 4960) & CURO Research Award
- 2023: T’Kai Adekunle (Savannah State University): Pop. Bio. Infect. Diseases REU, UGA
- 2023: Isaac Wood: Independent Research (ECOL 4960) & CURO Summer Fellowship, UGA
- 2023: Gabriel Sullivan-Brugger: Ind. Research (ECOL 4960) & CURO Award, UGA
- 2023: Christopher Romiluyi: CURO Research Award, UGA
- 2022: Jenavier Tejada (Dennison University): Population Biology of Infectious Diseases REU, UGA; Travel Award, SACNAS National Diversity in STEM Conference
- 2022: Emily Landolt (St. Norbert College): Pop. Biology Infectious Diseases REU, UGA
- 2022: Abigail (Mackenzie) Jordan: CURO Research Award, UGA
- 2022: Andrew Mancao: Independent Research (ECOL 4960) & CURO Award, UGA
- 2021: Hannah O’Grady (Mount Holyoke College): Pop. Bio. Infectious Diseases REU, UGA
- 2021: August Anderson: Independent Research (ECOL 4960) & CURO Award, UGA

*\*Accolades of undergraduate students mentored by Dr. Strauss as postdoc at UMN and PhD student at IU are available upon request*

#### **6. Internship supervision** – NONE

#### **7. Instructional grants received**

- 2023: One-time Student Technology Fee (STF) Funding, UGA (\$11,074)
- 2022-2024: Lilly Teaching Fellowship, UGA (\$2,000)

#### **8. Recognitions and outstanding achievements in teaching and mentoring**

- 2024: Outstanding Teaching Faculty, University of Georgia
- 2022-2024: Lilly Teaching Fellowship, UGA

#### **9. Academic advising** – NONE

#### **10. Professional development**

- 2020-2022: Lilly Teaching Fellowship, UGA
- 2019: Teaching Mentorship, Dep. Biology Teaching and Learning, UMN (Mentor: Mark Decker)
- 2015: Enrolled Course: Mentored Teaching, IU (Instructor: Mimi Zolan)

### **III. SCHOLARLY ACTIVITIES & CREATIVE WORK**

#### **1. Publications**

Dr. Strauss has authored a total of **31** peer-reviewed publications, including 28 journal articles, two monographs and one book chapter, with 17 of these works published after Dr. Strauss arrived at UGA. Authorship was typically assigned using the “first-last-author-emphasis-norm”, in which the first author is the primary contributor and last authorship denotes “senior authorship” with contributions to study design, interpretation, and writing. Notations: Dr. Strauss is **bolded**. Manuscripts where he was the senior author are denoted with \*. Students and other coauthors advised by Dr. Strauss are underlined. For co-authored publications with Dr. Strauss as a middle author, his contributions are briefly described in *italics*. Award-winning publications (5x) are denoted with a †.

A. BOOKS AUTHORED OR CO-AUTHORED – NONE

B. BOOKS EDITED OR CO-EDITED – NONE

C. CHAPTERS IN BOOKS (PEER REVIEWED; INVITED)

1. \*Guindre-Parker, S, Tung, J, and **AT Strauss**. 2022. Emerging frontiers in animal behavior and parasitism: Integration across scales. In: Ezenwa VO, Altizer S, Hall RJ, editors. *Animal Behavior and Parasitism*: Oxford University Press. 16 pages. *Dr. Strauss roles: conception, data collection, discussion, writing. All authors contributed equally.*

D. MONOGRAPHS (PEER REVIEWED; NOT INVITED)

2. Borer ET, Paseka, RE, Peace, A, Asik, L, Everett, R, Frenken, T, González, AL, **Strauss, AT**, Van de Wall, D, LA White and EW Seabloom. 2022. Disease-mediated nutrient dynamics: Coupling host-pathogen interactions with ecosystem elements and energy. *Ecological Monographs* 92 (2): e1510. *Dr. Strauss roles: discussion, interpretation, writing.*
3. † **Strauss, AT**, Shocket, MS, Civitello, DJ, Hite, JL, Penczykowski, RM, Duffy, MA, Cáceres, CE, and SR Hall. 2016. Habitat, predators, and hosts regulate disease in *Daphnia* through direct and indirect pathways. *Ecological Monographs* 86: 393-411. †winner of 2017 Thomas M. Frost Award for Excellence in Graduate Research.

E. JOURNAL ARTICLES (PEER REVIEWED; NOT INVITED)

4. **Strauss, AT**, Hobbie, SE, Reich, PB, Seabloom, EW, and ET Borer. The effect of diversity on disease reverses from dilution to amplification in a 22-year biodiversity x N x CO<sub>2</sub> experiment. 2024. *Scientific Reports* 14(1).
5. **Strauss, AT**, Suh, DC, Galbraith, K, Coker, SM, Schroeder KM, Brandon, C, Warburton, EM, Yabsley, MJ, and CA Cleveland. 2024. Mysterious Microsporidians: Springtime outbreaks of disease in *Daphnia* communities in shallow pond ecosystems. *Oecologia* 204(2).
6. van de Waal, DB, White, LA, Everett, RA, Asik, A, Borer, ET, Frenken, T, González, AL, Paseka, RE, Seabloom, EW, **Strauss, AT**, and AL Peace. 2023. Reconciling contrasting effects of nitrogen on host immunity and pathogen transmission using stoichiometric models. *Ecology* 104(12). *Dr. Strauss roles: discussion, interpretation, writing.*
7. Seabloom, EW, Asik, A, Everett, RA, Frenken, T, González, AL, Paseka, RE, Peace, AL, **Strauss, AT**, van de Waal, DB, White, LA, and ET Borer. 2023. Dead or alive: Integrating disease and ecosystem ecology theory. *Oikos*. *Dr. Strauss roles: design, discussion, interpretation, writing.*
8. Walsman, JC, **Strauss, AT**, Hite, JL, Shocket, MS, and SR Hall. 2022. A paradox of parasite resistance: disease-driven trophic cascades increase the cost of resistance, selecting for lower resistance with parasites than without them. *Evolutionary Ecology* 37(1): 53-74. *Dr. Strauss roles: data collection, discussion, writing.*
9. Walsman, J, **Strauss, AT**, and SR Hall. 2022. Parasite-driven cascades or hydra effects: virulence and foraging depression shape parasite-host-resource interactions. *Functional Ecology* 36: 1268-1278. *Dr. Strauss roles: data collection, discussion, writing.*
10. Ebeling, A, **Strauss, AT**, Adler, P, Arnillas, C, Barrio, I, Biederman, L, Borer, E, Bugalho, M, Caldeira, M, Cadotte, M, Daleo, P, Eisenhauer, N, Eskelinen, A, Fay, P, Firn, J, Graff, P, Hagenah, N, Haider, S, Komatsu, K, McCulley, R, Mitchell, C, Moore, J, Pascual, J, Peri, P, Power, S, Prober, S, Risch, A, Roscher C, Sankaran, M, Seabloom, E, Schielzeth, H, Schutz, M, Speziale, K, Tedder, M, Virtanen, R, and DM Blumenthal. 2022. Nutrient enrichment increases herbivory and pathogen damage in grasslands. *Journal of Ecology* 110: 327-339. *Dr. Strauss roles: coding, analysis, discussion, writing. The first two authors (AE and ATS) contributed equally.*
11. Porath-Krause A, **Strauss, AT**, Henning, JA, Seabloom, EW, and ET Borer. 2022. Pitfalls and Pointers: An accessible guide to marker gene amplicon sequencing in ecological applications. *Methods in Ecology and Evolution* 13: 266-277. *Dr. Strauss roles: coding, analysis, writing.*

12. Wilfahrt, P, Asmus, AL, Seabloom, EW, Henning, JA, Adler, P, Arnillas, CA, Bakker, JD, Biederman, L, Brudvig, LA, Cadotte, M, Daleo, P, Eskelinen, A, Firn, J, Harpole, WS, Hautier, Y, Kirkman, KP, Komatsu, KJ, Laungani, R, MacDougall, A, McCulley, RL, Moore, JL, Morgan, JW, Mortensen, B, Hueso, RO, Ohlert, T, Power, SA, Price, J, Risch, AC, Schuetz, M, Shoemaker, L, Stevens, C, **Strauss, AT**, Tognetti, PM, Virtanen, R, and ET Borer. 2021. Temporal rarity is a better predictor of local extinction risk than spatial rarity. *Ecology* 102 (11): e03504. *Dr. Strauss roles: data collection, discussion, writing.*
13. **Strauss, AT**, Bowerman, L, Porath-Krause A, Seabloom, EW, and ET Borer. 2021. Mixed infection, risk projection, and misdirection: Resource supply determines infection risk for hosts exposed to multiple pathogens. *Ecology and Evolution* 11 (14): 9599-9609.
14. Frenken, T, Paseka, R, González, A, Asik, L, Seabloom, EW, White, L, Borer, ET, **Strauss, AT**, Peace, A, D van de Waal. 2021. Changing elemental cycles, stoichiometric mismatches, and consequences for pathogens of primary producers. *Oikos* 130 (7): 1046-1055. *Dr. Strauss roles: discussion, writing.*
15. Porath-Krause, A, Campbell, R, Shoemaker, LG, Sieben, A, **Strauss, AT**, Shaw, AK, Seabloom, EW, and ET Borer. 2021. Pliant pathogens: Estimating viral spread when confronted with new vector, host, and environmental conditions. *Ecology and Evolution* 11 (4): 1877-1887. *Dr. Strauss roles: design, analysis, discussion, writing.*
16. Borer, ET, Asik, L, Everett, R, Frenken, T, González, A, Paseka, R, Peace, A, Seabloom, EW, **Strauss, AT**, van de Waal, D, and L White. 2021. Elements of disease in a changing world: Modeling feedbacks between infectious disease and ecosystems. *Ecology Letters* 24 (1): 6-19. *Dr. Strauss roles: discussion, interpretation, writing.*
17. **Strauss, AT**, Henning, JA, Porath-Krause A, Asmus AL, Shaw, AK, Borer, ET, and EW Seabloom. 2020. Vector demography, dispersal, and the spread of disease: Experimental epidemics under elevated resource supply. *Functional Ecology* 34 (12): 2560-2570.
18. Paseka, R, White, L, van de Waal, D, **Strauss, AT**, González, A, Everett, R, Peace, A, Seabloom, EW, Frenken, T, and ET Borer. 2020. Disease-mediated ecosystem services: Pathogens, plants, and people. *Trends in Ecology and Evolution*. 35 (8): 731-743. *Dr. Strauss roles: discussion, writing.*

*All journal articles listed below were published before ATS arrived at UGA.*

19. **Strauss, AT**, Hite, JL, Civitello, DJ, Shocket, MS, Cáceres, CE, and SR Hall. 2019. Genotypic variation in parasite avoidance behavior and other mechanistic, non-nonlinear components of transmission. *Proceedings of the Royal Society B* 286 (1915): 20192164.
20. **Strauss, AT**, Shoemaker LG, Seabloom EW, and ET Borer. 2019. Cross-scale dynamics in community and disease ecology: Relative timescales shape the community ecology of pathogens. *Ecology* 100 (11): e02836.
21. † Shoemaker, LG, Hayhurst, E, Weiss-Lehman, CP, **Strauss, AT**, Porath-Krause, A, Borer, ET, Seabloom, EW, and AK Shaw. 2019. Pathogens manipulate the preference of vectors, slowing disease spread in a multi-host system. *Ecology Letters* 22 (7): 1115-1125. *Dr. Strauss roles: data collection, discussion, writing.* †winner of 2019 Ecology Letters Early Career Researcher Award (awarded to L Shoemaker)
22. Bresciani, L, Lemos, LN, Wale, N, Lin, JY, **Strauss, AT**, Duffy, MA, and LM Rodrigues. 2018. Draft genome sequence of *Candidatus* Spirobacillus cienkowskii, a pathogen of freshwater *Daphnia* species, reconstructed from hemolymph metagenomics reads. *Microbiology Resource Announcements* 7 (22): e01175-18. *Dr. Strauss roles: collection of field samples, writing.*
23. Shocket, MS, Vergara, D, Sickbert, A, Walsman, J, **Strauss, AT**, Hite, JL, Duffy, MA, Cáceres, CE, and SR Hall. 2018 Parasite rearing and infection temperatures jointly influence disease transmission and shape seasonality of epidemics. *Ecology* 99 (9): 1975-1987. *Dr. Strauss roles: data collection, discussion, writing.*

24. † **Strauss, AT**, Bowling, AM, Duffy, MA, Cáceres, CE, and SR Hall. 2018. Linking host traits, interactions with competitors, and disease: Mechanistic foundations for disease dilution. *Functional Ecology* 32 (5): 1271-1279. †winner of 2019 JBS Haldane Early Career Award.
25. † Shocket, MS, **Strauss, AT**, Hite, JL, Šljivar, M, Civitello, DJ, Duffy, MA, Cáceres, CE, and SR Hall. 2018. Temperature drives epidemics in a zooplankton-fungus disease system: A trait driven approach points to transmission via host foraging. *The American Naturalist* 191 (4): 435-451. *Dr. Strauss roles: data collection, writing.* †winner of 2019 American Naturalist Student Paper Award (awarded to M Shocket).
26. **Strauss, AT**, Hite, JL, Shocket, MS, Cáceres, CE, Duffy, MA, and SR Hall. 2017. Rapid evolution rescues hosts from competition and disease and – despite a dilution effect – increases the density of infected hosts. 2017. *Proceedings of the Royal Society B*. 284.
27. Hite, JL, Penczykowski, RM, Shocket, MS, Griebel, K, **Strauss, AT**, Duffy, MA, Cáceres, CE, and SR Hall. 2017. Allocation, not male resistance, increases male frequency during epidemics: A case study in facultatively sexual hosts. *Ecology* 98: 2773-2783. *Dr. Strauss roles: data collection, writing.*
28. Hite, JL, Penczykowski, RM, Shocket, MS, **Strauss AT**, Orlando PA, Duffy, MA, Cáceres, CE, and SR Hall. 2016. Parasites destabilize host populations by shifting stage-structured interactions. *Ecology* 97: 439-449. *Dr. Strauss roles: data collection, writing.*
29. † **Strauss, AT**, Civitello, DJ, Cáceres, CE, and SR Hall. 2015. Success, failure, and ambiguity of the dilution effect among competitors. *Ecology Letters* 18: 916-926. †winner of 2015 ESA Disease Section Outstanding Paper Award.
30. **Strauss, AT** and KG Smith. 2013. Why does amphibian chytrid (*Batrachochytrium dendrobatidis*) not occur everywhere? An exploratory study in Missouri ponds. *PLoS ONE*.
31. **Strauss, A**, White, A, and M Boots. 2012. Invading with biological weapons: The importance of disease-mediated invasions. *Functional Ecology* 26: 1249-1261.

F. BULLETINS OR REPORTS – NONE

G. CONFERENCE ABSTRACTS - SEE “PRESENTATIONS”, BELOW.

H. BOOK REVIEWS – NONE

I. PATENTS – NONE

J. WORKS SUBMITTED BUT NOT YET ACCEPTED

- Halliday, FW, Kohli, M, Everingham, SE, Bröcher, M, Ebeling, A, Kempel, A, Mundim, FM, **Strauss, AT**, and ZA Xirocostas. Towards an integrative mechanistic framework for biodiversity-consumer relationships. In revision (*Trends in Ecology & Evolution*). *Dr. Strauss roles: discussion, writing.*
- Suh, D, Schroeder, K, and AT Strauss. Temperature and resources interact to influence transmission via host foraging rate and susceptibility. In review.
- Henning, JA, Borer, ET, **Strauss, AT**, Lumibao, C, May, G, Kinkel, L, and EW Seabloom. Selection, ecological drift, and dispersal shape foliar fungal endophyte community assembly receiving nutrient addition. In review. *Dr. Strauss roles: discussion, writing.*

K. OTHER KINDS OF SUBMISSIONS OR ACTIVITIES – NONE

L. CREATIVE CONTRIBUTIONS OTHER THAN FORMAL PUBLICATIONS

- “This is Hidden” Podcast. Hosted by C Williams, interviewing Alex Strauss about research on the community ecology of infectious disease. 2024.
- “Gaming with Science” Podcast. Hosted by B Kvitko & J Wallace, with guest Alex Strauss. 2024.
- Cedar Creek Education and Community Engagement Newsletter: “The fungus among us: Research on infectious disease in grassland plants.”Paseka, RE and AT Strauss. 2020.

- Functional Ecologists Blog ([functionalecologists.com](http://functionalecologists.com)): “Disease, diversity, and dilution.” Strauss, AT. 2019.

## **2. Grants and fellowships received**

Dr. Strauss has been awarded a total of \$1,558,000 in research grants and fellowships, including \$386,500 awarded to the Strauss Lab at UGA. The total amount awarded is listed for each grant or fellowship. For collaborative grants, the amount awarded to Dr. Strauss is listed separately. If funds were not awarded directly to Dr. Strauss, his contributions are briefly described in *italics*.

- 2023: CEID/IOB Seed Grant, UGA. Genome-informed approach to study ecological dynamics of parasites with complex lifecycles. PI: AT Strauss. Co-PIs: C Cleveland and C Bergman. Total awarded: \$25,000. Awarded to Dr. Strauss: \$13,250.
- 2023: sDiv ECR11.03. Early Career Working Group: How does biodiversity drive disease and herbivory in a changing world? German Centre for Integrative Biodiversity Research (iDiv). Lead PI: Fletcher Halliday [Oregon St U]. Total awarded to group for travel: \$39,900. Awarded to Dr. Strauss for travel: \$6,561. *Dr. Strauss roles: Developed ideas and revised proposal.*
- 2023: NSF DEB 2245422. Thermal Community Ecology of Disease. Sole PI: AT Strauss. Total awarded: \$200,000.
- 2023: UGA Developing Pathways Warnell Internship. Lead PI: R Abney. Co-PI: AT Strauss. Total awarded: \$15,239. *Dr. Strauss roles: Developed questions, writing.*
- 2022: Carter Center A775857: Enhancing Guinea worm eradication efforts by understanding the ecology of copepods and their dynamic responses to predators and Abate treatment. Lead PI: DJ Civitello (Emory U). Co-PI: AT Strauss. Total awarded: \$798,309. Awarded to Dr. Strauss: \$137,538.
- 2021: UGA Presidential Interdisciplinary Seed Grant: Bloom and Doom: Is increasing risk of harmful algal blooms an inevitable consequence of global change? Assessing risk and exploring strategies in Georgia from biological and social perspectives. Lead PI: C Struthers. Co-PIs: AT Strauss, K Capps, P Hazelton, and M Ritchie. Total awarded: \$142,245. Awarded to Dr. Strauss: \$49,000.
- 2020: UMN Minnesota Futures Research Grant (427224). The emergence of chronic wasting disease in Minnesota: Transmission across a landscape of plants, soils, water, and deer. PI: EW Seabloom (UMN). *Dr. Strauss roles: led the proposal, assembled the team, wrote the first draft, managed revisions and submission. The budget would have supported Dr. Strauss as a postdoc at UMN but was reallocated when he accepted his position at UGA.* Total awarded: \$249,000.
- 2019: REU supplement for NSF DEB 1556649. Lead PI: EW Seabloom. Co-PI: ET Borer. *Dr. Strauss roles: developed questions, wrote the first draft and revised.* Total awarded: \$6,500.
- 2018: REU supplement for NSF DEB 1556649. Lead PI: EW Seabloom. Co-PI: ET Borer. *Dr. Strauss roles: developed questions, wrote the first draft and revised.* Total awarded: \$6,500.
- 2016: Floyd/Ogg/Cleland Final Year Fellowship, Indiana University. Total awarded: \$10,000
- 2015: Floyd Plant & Fungal Biology Summer Fellowship, Indiana U. Total awarded: \$1,100
- 2014: NSF DEB Doctoral Dissertation Improvement Grant (1406846). Dissertation Research: Eco-Evolutionary Dynamics of the Dilution Effect. Lead PI: SR Hall. Co-PI: AT Strauss. *Dr. Strauss roles: developed questions, wrote the first draft and revised.* Total awarded: \$20,000.
- 2013: David G. Frey Memorial Fund Award, Indiana University. Total awarded: \$2,000
- 2012: Floyd Plant & Fungal Biology Summer Fellowship, Indiana U. Total awarded: \$1,300
- 2011: Biology Department Research Recruitment Fellowship, IU. Total awarded: \$12,000
- 2011: NSF Graduate Research Fellowship (GRFP). Total awarded: \$94,000.

## **3. Recognitions and outstanding achievements**

- 2019: JBS Haldane Early Career Award, British Ecological Society

- 2017: Thomas Frost Award in Graduate Research, Ecological Society America, Aquatic Section
- 2015: Outstanding Paper Award, Ecological Society of America, Disease Ecology Section
- 2014: Doctoral Dissertation Improvement Grant Award, NSF
- 2010: Doctoral Dissertation Enhancement Program Awardee, NSF

#### **4. Supervision of student research**

**TABLE 2: SUMMARY OF SUPERVISION OF STUDENT RESEARCH AT UGA**

Year	# Undergraduate research projects advised (CURO, REU, or 4960)	# MS theses advised	# PhD dissertations advised
2024	7 (Scott [2x], Akins [2x], Dudgeon [2x], McCain)	1 (Mayes)	2 (Schroeder, Oni)
2023	4 (Romiluyi, Sullivan-Brugger, Adekunle, Wood)	1 (Mayes)	2 (Schroeder, Oni)
2022	4 (Adams, Mancao, Tejada, Landolt)	0	2 (Schroeder)
2021	2 (Anderson, O'Grady)	0	1 (Schroeder)

#### **GRANTS AND OTHER ACCOLADES AWARDED TO GRADUATE MENTEES**

- 2024: K. Mayes: Horseshoe Bend Power Grant
- 2024: K. Mayes: Odum School of Ecology Small Grant
- 2023: J. Oni: AG Leventis Foundation Grant
- 2023: J. Oni: Presidential Award, UGA Graduate School
- 2023: K. Schroeder: Honorable Mention, NSF Graduate Research Fellowship Program
- 2022: K. Schroeder: Odum Graduate Student Research Small Grant

#### **ACCOLADES AWARDED TO UNDERGRADUATE & POST-BACCALAUREATE MENTEES**

- 2023: C. Brandon: 3<sup>rd</sup> place prize, UGA River Basin Center Confluence Poster Event
- 2022: J. Tejada: Travel Award, SACNAS National Diversity in STEM Conference
- 2019: L. Bowerman: Best Poster Award, UMN Undergraduate Research Symposium

**5. Convention papers/Proceedings** – SEE “PRESENTATIONS”, BELOW. ABSTRACTS FOR TALKS DELIVERED AT THE ECOLOGICAL SOCIETY OF AMERICA ARE PUBLISHED ONLINE AND ARE AVAILABLE UPON REQUEST.

#### **6. Presentations**

Dr. Strauss has delivered 26 scholarly presentations at regional and national conferences, symposia, and academic institutions, including 11 invited oral presentations since arriving at UGA. Advisees at UGA have delivered an additional 8 talks and 16 posters with Dr. Strauss as senior author (indicated with \*; presenter names underlined). Presentations by other students or collaborators (with Dr. Strauss as co-author) are not listed but are available upon request.

#### **A. INVITED SEMINARS AT ACADEMIC INSTITUTIONS, CONFERENCES, AND SYMPOSIA**

- 2025: A legacy of competitive exclusion: Temperature-dependent effects on host stage structure and disease. Symposium talk. Society for Integrative and Comparative Biology Annual Meeting, Atlanta, Georgia, USA. (Jan 4)
- 2024: Thermal & community ecology of disease. International Forum on Ecology and Evolution of Avian Influenza (IFEEAI). Zoom Webinar. (Nov 12)
- 2024: Ecology and evolution of parasites with complex lifecycles. Workshop. Center for the Ecology of Infectious Diseases, UGA. (Oct 15)
- 2024: The thermal community ecology of disease. Ecology and Evolution Seminar Series, Florida State University. (Feb 23)
- 2024: Why you should care about parasites that infect zooplankton: Population dynamics, Guinea worm disease, and ecosystem function. Biology Colloquium Series, Florida State University. (Feb 22)



- 2023: Ecological drivers of infectious disease in zooplankton study systems. Ecology and Evolution Graduate Seminar Series, University of Maryland, College Park. (Sep 11)
- 2022: Ecosystem and community drivers of disease: Tales of aphid vectored viruses and mysterious microsporidians. Center for the Ecology of Infectious Diseases, UGA (Apr 13)
- 2022: Effects of nutrients on disease across scales: Coinfection, movement, and demography of vectors. Asa Gray Biology Seminar Series, Utica College (Mar 30)
- 2021: Effects of nutrients on disease across scales: Coinfection, movement, and demography of vectors. Department of Plant Biology, University of Georgia (Nov 15)
- 2021: Effects of nutrients on disease across scales: Coinfection, movement, and demography of vectors. Department of Ecology, Evolution, and Organismal Biology, Kennesaw State University (Oct 13)
- 2021: Effects of host resources on disease across scales: Coinfection, movement, and demography of vectors. VectorBITE Symposium. (Jul 9)
- 2020: Disease ecology and global change. Odum School of Ecology, UGA (April 15)

#### B. CONTRIBUTED TALKS

- 2024: Twice the Price for weighted traits: Partitioning differences in weighted traits of ecological communities in response to environmental change. Theory Lunch, Odum School of Ecology, UGA (April 4)
- 2023: Mysterious Microsporidians: Springtime outbreaks of disease in *Daphnia* in shallow Georgia reservoirs. 1 of 3 Faculty Speed Talks. Odum School of Ecology, UGA (Sep 5)
- 2023: Mysterious Microsporidians: Springtime outbreaks of disease in *Daphnia* communities in shallow pond ecosystems. 4<sup>th</sup> Annual Microsporidiafest. Virtual Conference. (Sep 12)
- 2023: Mysterious Microsporidians: Springtime outbreaks of disease in *Daphnia* communities in shallow pond ecosystems. Ecological Society of America Annual Meeting, Portland, Oregon, USA. (Aug 7)
- 2022: The HABs and HABS notes: Variation in timing and severity of harmful algal blooms. Climate and Water Research Slam, River Basin Center, UGA, Athens, GA. (May 12)
- 2018: Unpacking the black box of disease models. Ecological Society of America Annual Meeting, New Orleans, Louisiana, USA.
- 2016: Host traits and modular species interactions predict dynamical disease outcomes. Ecological Society of America Annual Meeting, Fort Lauderdale, Florida, USA.
- 2015: Habitat, hosts, and fungus in the field: Synthesizing hypotheses from the community ecology of disease. Ecological Society of America Annual Meeting, Baltimore, Maryland, USA.
- 2015: Habitat, hosts, and fungus in the field: Synthesizing hypotheses from the community ecology of disease. Midwest Ecology and Evolution Conference, Bloomington, Indiana, USA.
- 2014: The dilution effect among competing, evolving hosts. Ecological Society of America Annual Meeting, Sacramento, California, USA.
- 2013: Outcomes of the dilution effect when hosts compete. Ecological Society of America Annual Meeting, Minneapolis, Minnesota, USA.

#### C. POSTER PRESENTATIONS

- 2024: Hot and hungry healthy herds: Predators reverse the effects of temperature on disease. Ecology and Evolution of Infectious Disease Annual Meeting, Palo Alto, California, USA (June 26).
- 2015: Community drivers of disease. Ecology and Evolution of Infectious Disease Annual Meeting, Athens, Georgia, USA.
- 2013: Trait dependent outcomes of the dilution effect. Ecology and Evolution of Infectious Disease Annual Meeting, State College, Pennsylvania, USA.
- 2012: Invertebrate community structure helps explain the distribution of amphibian chytrid in

Eastern Missouri. Ecological Society of America Ecological Society of America Annual Meeting,  
Portland, Oregon, USA

D. ORAL PRESENTATIONS BY ADVISEES WITH DR. STRAUSS AS SENIOR AUTHOR

- \*2024: Presenter: D Suh. Temperature and resource conditions jointly influence transmission of *Metschnikowia bicuspidata* in *Daphnia dentifera*. Ecological Society of America Annual Meeting, Long Beach, CA, USA.
- \*2024: presenter: R Scott. Too hot to handle: Impact of random temperature fluctuations on the transmission dynamics of *Metschnikowia bicuspidata* in *Daphnia dentifera* populations. UGA Summer Fellowship Final Forum, Athens, GA, USA.
- \*2024: presenter: K Mayes. Do changes in nutrient input affect seasonal infections of microsporidians in midges? Climate and Water Research Slam, River Basin Center, UGA, Athens, GA.
- \*2024: presenter: K Mayes. Do changes in nutrient input affect seasonal infections of microsporidians in midges? 30th Graduate Student Symposium, Odum School of Ecology, UGA, Athens, GA.
- \*2024: presenter: K Schroeder. Thermal fluctuations increase disease transmission of a fungal parasite in a zooplankton host at the individual and population scale. 30th Graduate Student Symposium, Odum School of Ecology, UGA, Athens, GA.
- \*2023: Presenter: K Schroeder. Thermal fluctuations increase disease transmission of a fungal parasite in a zooplankton host at the individual and population scale. Ecological Society of America Annual Meeting, Portland, Oregon, USA.
- \*2022: Presenter: D Suh. Temperature and resource conditions jointly influence the infection of *Daphnia dentifera* by the fungal parasite *Metschnikowia bicuspidata*. Ecological Society of America Annual Meeting, Montréal, Québec, Canada.
- \*2022: presenter: K Schroeder. Implications of temperature variation and resource availability during diel vertical migration on disease transmission in a zooplankton - fungal parasite system. 28th Graduate Student Symposium, Odum School of Ecology, UGA, Athens, GA.

E. POSTER PRESENTATIONS BY ADVISEES WITH DR. STRAUSS AS SENIOR AUTHOR

- \*2024: presenter: A Akins. Spore infectivity over a time and temperature gradient. UGA CURO Symposium, Athens, GA, USA.
- \*2024: presenter: K Mayes. Mysterious microsporidians: Timing and severity of outbreaks in freshwater ponds. Ecology and Evolution of Infectious Disease Annual Meeting, Palo Alto, California, USA.
- \*2024: presenter: T Adekunle. Would mosquitofish choose you? Mosquitofish prey preference in a *Daphnia*-based system. Emerging Researchers National (ERN) Conference in STEM, Washington D.C., USA
- \*2023: presenter: I Wood. Microsporidian midge mystery: Chironomidae emergence timing in relation to *Daphnia* outbreaks. UGA Summer Fellowship Final Forum, Athens, GA, USA.
- \*2023: presenter: C Brandon. Mysterious microsporidians: Springtime outbreaks & Co-occurring parasites. UGA River Basin Center Confluence Poster Event, Athens, GA, USA.
- \*2023: presenter: T Adekunle. Would mosquitofish choose you? Mosquitofish prey preference in a *Daphnia*-based system. UGA REU Symposium, Athens, GA, USA.
- \*2023: presenter: R Richards. Stage structure disrupts predator-parasite interactions. Ecology and Evolution of Infectious Disease Annual Meeting, State College, Pennsylvania, USA.
- \*2023: presenter: C Romiluyi. Foraging rate across resources and temperature gradient in *Daphnia dentifera*. UGA CURO Symposium, Athens, GA, USA.
- \*2023: presenter: G Sullivan-Brugger. Spring (Out)Break: Investigating spring epidemics in *Daphnia spp.* (host) and microsporidia (parasite) in ponds located in Whitehall forest. UGA

CURO Symposium, Athens, GA, USA.

- \*2022: presenter: J Tejada. Effects of temperature fluctuation on disease transmission in multi-host communities. Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) National Diversity in STEM Conference, San Juan, Puerto Rico.
- \*2022: presenter: J Tejada. Effects of temperature fluctuation on disease transmission in multi-host communities. UGA REU Symposium, Athens, GA, USA.
- \*2022: presenter: E Landolt. Approximating abundance of *Daphnia dentifera* using environmental DNA (eDNA) samples. UGA REU Symposium, Athens, GA, USA.
- \*2022: presenter: A Mancao. Relative climate change effects on interspecific competition of *Daphnia* vs. *Ceriodaphnia*. UGA CURO Symposium, Athens, GA, USA.
- \*2022: presenter: AM Jordan. Disease transmission influenced by temperature and host competency. UGA CURO Symposium, Athens, GA, USA.
- \*2021: presenter: H O'Grady. Infection and spore yield of a *Daphnia* microsporidian. UGA REU Symposium, Athens, GA, USA.
- \*2021: presenter: A Anderson. The ecology of fescue endophytes: One approach to understanding epichloe infection. UGA CURO Symposium, Athens, GA, USA.

#### **IV. PUBLIC SERVICE**

##### **1. Extension** – NONE

##### **2. International programs**

###### **INVITED PARTICIPATION IN INTERNATIONAL WORKING GROUPS**

- 2023-2025: sConsume: How does biodiversity drive disease and herbivory in a changing world? Early Career Working Group, German Centre for Integrative Biodiversity Research (iDiv).
- 2018-2022: Microbial disease dynamics, ecosystem processes, and human eutrophication of the environment, National Socio-Environmental Synthesis Center
- 2017-2021: Nutrient Network Annual Meetings and Workshops, University of Minnesota

###### **MEETINGS ATTENDED (WORKING GROUPS AND PROGRAM REVIEWS)**

- 2024: sConsume meeting, German Centre for Integrative Biodiversity Research (iDiv), Leipzig, Germany (Jan 22-26)
- 2024: Guinea Worm Eradication Annual Program Review, Carter Center, Atlanta, GA, USA (April 17-19)

##### **3. Local community services and relations since coming to UGA**

- 2024: Horseshoe Bend tour for high school students. (Environmental Science class, Clarke Central High School, Athens, GA)
- 2024: Lab tour for high school students. (Green Steps Club, Walhalla HS, South Carolina)
- 2022-present: Who lives in your lake? Interactive freshwater science education booth. Athens Annual Water Festivals, Athens-Clarke County.
- 2023-present: Can you catch a water flea? Tailgating outreach booth at UGA football games (in collaboration with STEMZone). G-Day 2023.
- 2022: Freshwater Food Webs. Show-and-tell after school module for local children (in collaboration with EcoReach). Athens-Clarke County Library.

##### **4. Service to governmental and nongovernmental agencies since coming to UGA** – NONE

#### **V. PROFESSIONAL SERVICE**

##### **1. Service to professional societies, organizations, or agencies**

- 2024: Secretary-Treasurer. Disease Section, Ecological Society of America
- 2023: Judge for best student talk. Aquatic Section, Ecological Society of America

- 2022: REU program organizer. Population Biology of Infectious Disease Site REU, University of Georgia
- 2021: Session moderator. Virtual Symposium: Research Frontiers in Animal Behavior and Parasitism, Center for Ecology of Infectious Disease, University of Georgia
- 2017-2019: Judge for best student paper awards. Disease Ecology Section, Ecological Society of America
- 2015: Conference organizer. Midwest Ecology & Evolution Conference, Indiana University

## **2. Editorships or editorial board memberships for journals – NONE**

### **3. Ad hoc manuscript reviews**

*Journal of Applied Ecology* (4), *Ecology Letters* (7), *Ecology* (9), *EcoHealth* (1), *The American Naturalist* (2), *Nature Ecology & Evolution* (1), *Journal of Animal Ecology* (7), *Oecologia* (7), *Biological Invasions* (3), *Methods in Ecology and Evolution* (2), *Functional Ecology* (1), *Nature Communications* (2), *Proceedings of the Royal Society B* (1), *Journal of Ecology* (1), *Limnology and Oceanography* (3), *Global Ecology and Biogeography* (1), Book Chapters (1)  
Total by year: 2024 (3); 2023 (6); 2022 (8); 2021 (7); 2020 (7); 2019 (10); 2018 (9); 2017 (2); 2016 (1)

All reviews listed in Dr. Strauss's Publons profile: <https://publons.com/author/1267621>

### **4. Grant review panel member**

- 2024: NSF reviewer
- 2024: Postdoc Travel Program, UGA

### **5. Ad hoc grant reviews – NONE**

### **6. External evaluator of promotion/tenure dossier – NONE**

### **7. Service on departmental, college, or university committees**

- 2023-present: Graduation Program Committee, Odum School of Ecology
- 2023: Search Committee, Research & Teaching Postdoctoral Associate, Odum School of Ecology
- 2023: Search Committee, Academic Professional Associate, Odum School of Ecology
- 2021-2023: Seminar Committee, Odum School of Ecology
- 2021: Search Committee, Environmental Policy & Ecology, Odum School of Ecology
- 2021: University Council Representative (substitute fall 2021)
- 2020: Search Committee, Environmental Policy & Ecology, Odum School of Ecology

### **8. Special administrative assignments – NONE**

### **9. Service to student groups and organizations**

- 2024: Faculty Enrichment Fund social gathering with students from ECOL 4000/6000
- 2023: Faculty Enrichment Fund social gathering with students from ECOL 4000/6000
- 2022: Development and implementation of new hands-on learning modules in collaboration with EcoReach (organized by graduate students), Odum School of Ecology
- 2021-present: Judge, Graduate Student Symposium, Odum School of Ecology

### **10. Service to support units such as libraries, computing services, and health services – NONE**

## **ACCOMPLISHMENTS IN RESEARCH, TEACHING, AND ADMINISTRATION**

### **1. ACHIEVEMENTS IN TEACHING**

Dr. Strauss makes strong annual contributions to the instruction of both graduate and undergraduate courses at UGA. Since arriving at UGA in 2020, Dr. Strauss has taught nine lecture-based courses, including five with associated lab sections (four unique courses offered multiple

years; two with labs). He has received strong course evaluation scores for all courses taught (grand mean 4.61/5; n=45 student respondents). Three of these unique courses are foundational to the undergraduate curriculum in the Odum School of Ecology. Ecology B.S. majors must enroll in either Population and Community Ecology (ECOL-4000; taught by Dr. Strauss in 2020, 2021, and 2023; mean evaluation score 4.62/5; n=21) or Population Biology of Infectious Disease (ECOL-4150; taught by Dr. Strauss in 2021, 2022, and 2023; mean evaluation score 4.76/5; n=16). Ecology B.S. majors must additionally enroll in either Freshwater Ecosystems (ECOL-4310; taught by Dr. Strauss in 2021 and 2023; mean evaluation score 4.64/5; n=9) or an alternative course about terrestrial ecosystems. Dr. Strauss has developed new innovative content for all three of these core Ecology that he teaches, including discussions and active learning activities during lectures, homework assignment designed to scaffold quantitative skills, and multi-week experiment and analysis modules for labs. Dr. Strauss is also adding a lab section to Population and Community Ecology, beginning in 2024. This new lab will bolster the Ecology undergraduate curriculum by providing students with opportunities to learn hands-on skills and appropriate statistical analyses. Dr. Strauss contributes to graduate level instruction through a quantitative 'model module' in an introductory course for all first-semester PhD students (ECOL-8000), and through the enrollment of MS and PhD students in the three abovementioned foundational ecology courses (4000/6000, 4150/6150, and 4310/6310). Because of these achievements and his dedication to ongoing excellence in teaching, Dr. Strauss was selected for UGA's Lilly Teaching Fellows program in 2022.

## **2. ACHIEVEMENTS IN GRADUATE AND UNDERGRADUATE MENTORING**

Dr. Strauss makes strong annual contributions to the training of graduate students and the supervision of undergraduate research. Dr. Strauss currently serves as a major advisor for two PhD students (K. Schroder and J. Oni) and one MS student (K. Mayes). He also serves on the committees of one MS student and two PhD students, one of whom is conducting some of their dissertation research in the Strauss lab (D. Suh). Graduate students advised by Dr. Strauss have been awarded grants and fellowships (Odum Small Grant to K. Schroeder; AG Leventis Foundation Grant and UGA Presidential Award to J. Oni) and presented their research at local and national conferences (talks presented by K. Schroeder and D. Suh at the Ecological Society of America in 2022 and 2023).

Dr. Strauss has supervised research by 10 undergraduate students since arriving at UGA. He has advised students through the Population Biology of Infectious Diseases Site REU Program (four students), UGA CURO Program (six students), and Independent Research in Ecology (ECOL-4960; four students). All of these students present their research at local symposia (UGA CURO Symposium or REU Symposium). Dr. Strauss focuses on providing research opportunities for students from historically underrepresented groups (five of ten students). One of these students (J. Tejada) was awarded a travel grant and presented her research at SACNAS National Diversity in STEM Conference in 2022. Because of his commitment to undergraduate research and DEI initiatives, Dr. Strauss assumed a leadership role for the NSF-funded Population of Infectious Disease Site REU Program at UGA in 2022. He is submitted an NSF proposal as co-PI to renew funding for the Site REU program in 2023.

## **3. ACHIEVEMENTS IN RESEARCH**

Dr. Strauss is a disease and community ecologist. His research seeks to understand the ways that community structure and environmental gradients shape the transmission of infectious disease, and reciprocally, how parasites and pathogens affect community dynamics and ecosystem processes. He works mostly in aquatic ecosystems (focusing on zooplankton as hosts, along with their parasites, pathogens, and predators) but also studies analogous processes in terrestrial ecosystems (focusing on grasses as hosts, along with their pathogens, symbionts, and consumers). He asks basic questions in community and disease ecology (e.g., How do competition and predation shape disease transmission? How do losses of biodiversity and climate change shape infectious disease dynamics?) as well as more applied questions with implications for human health (e.g., Can

zooplankton grazers mitigate harmful algal blooms? How does predation of zooplankton hosts by fish affect transmission of Guinea worm parasites into people?). Dr. Strauss approaches these questions through the combination of field studies, experiments at organismal and mesocosm scales, and mathematical modeling. He has received funding from the National Science Foundation, the Carter Center, University of Georgia, University of Minnesota, and Indiana University. He has been an invited participant in three international working groups. Since arriving at UGA, he has been invited to deliver six seminars at academic institutions, one talk at an international symposium (VectorBITE 2021), and join one international working group (sDiv Synthesis Centre).

Dr. Strauss has authored a total of 30 peer-reviewed publications. He has an H-index of 15 and an i10 index of 18 on Google Scholar and has been cited 725 times (accessed August 8, 2023). He is the first author on 11 of these publications and senior author on one, with 16 of the 30 works published since Dr. Strauss arrived at UGA in 2020. Dr. Strauss publishes regularly in the flagship journals of his field, including *Ecology* (6x), *Ecology Letters* (3x), *Functional Ecology* (4x), *Ecological Monographs* (2x), *Journal of Ecology* (1x), *The American Naturalist* (1x), *Trends in Ecology and Evolution* (1x), and *Proceedings of the Royal Society B* (2x). Five of these articles have won awards, including three articles led by Dr. Strauss as first author. These awards include the JBS Haldane Early Career Award from the British Ecological Society (Strauss *et al.* 2018 *Functional Ecology*), the Thomas M. Frost Award for Excellence in Graduate Research from the Ecological Society of America Aquatic Section (Strauss *et al.* 2016 *Ecological Monographs*), and the Outstanding Paper Award from the Ecological Society of America Disease Ecology Section (Strauss *et al.* 2015 *Ecology Letters*).

Current research in the Strauss lab is focused on three themes: 1) the community ecology of infectious disease; 2) effects of temperature on disease dynamics; and 3) roles of parasites and pathogens in ecosystems. Dr. Strauss has built substantial facilities at the University of Georgia to enable research along these three themes, despite challenges and delays stemming from the COVID-19 pandemic. Research infrastructure established by Dr. Strauss at UGA includes creation of an IACUC-approved thermostatically-controlled indoor aquatic mesocosm facility, discovery of a novel multi-host, multi-parasite study system based on field surveys of local ponds and reservoirs, and establishment of a local site for a globally-distributed experiment in grasslands (DRAGNet). To support his research at UGA, Dr. Strauss has acquired funding from NSF (\$200,000 awarded to Dr. Strauss as sole PI), the Carter Center (one proposal funded; \$137,538 awarded to Dr. Strauss) and UGA (one proposal funded; \$49,000 awarded to Dr. Strauss). Dr. Strauss is currently seeking additional funding from NSF (two additional proposals in preparation; submitting fall 2023).

#### **4. ACHIEVEMENTS IN SERVICE TO SOCIETY, THE UNIVERSITY, AND THE PROFESSION**

Dr. Strauss is an engaged member of the Odum School of Ecology, the University of Georgia, and the Athens-Clarke community. In collaboration with EcoReach, he has developed two science education outreach activities and implemented them at the Athens Water Festival and Athens-Clarke Public Library. He has also served on seven departmental or university level committees, and continues to champion issues of diversity and inclusion through his roles as an instructor, research mentor, supervisor, and committee member. He has assumed a substantial leadership role to ensure the continued success of the NSF-funded Population Biology of Infectious Disease site REU program, based out of the Odum School of Ecology. Finally, he has served the broader scientific community as a conference organizer, symposium session moderator, judge for 'best paper' and 'best student talk' awards, and as a reviewer for 48 manuscripts submitted to premier ecological journals.