

Curriculum vitae of Joshua P. Scholl

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EDUCATION

- 08/2015 – 05/2020 PhD. Ecology and Evolutionary Biology
 Department of Ecology and Evolutionary Biology
Dissertation: Are offspring-heteromorphic species hedging their bets?
Advisor: Dr. Larry Venable
- 08/2013 – 08/2015 MSc. Ecology and Evolutionary Biology
 Department of Ecology and Evolutionary Biology
Advisor: Dr. Larry Venable
- 01/2008 – 05/2013 BSc. Biology and Geographic Information Systems (Summa Cum Laude; Valedictorian)
 Department of Biological Sciences, Florida Atlantic University, Boca Raton, FL
Honors Thesis: Distribution and habitat use of the gopher tortoise
Advisor: Dr. Evelyn Frazier

APPOINTMENTS

- 08/2023 – Present Instructor, Department of Biological Sciences, Florida Atlantic University
- 08/2022 – 07/2023 Postdoctoral Research Associate, Science Research Initiative, University of Utah
- 09/2021 – 07/2022 Adjunct Lecturer, Program in Environmental Sciences, Northwestern University
- 09/2020 – 07/2022 Postdoctoral Research Associate, Chicago Botanic Garden
- 07/2017 – 06/2020 Graduate Assistant, Department of Ecology and Evolutionary Biology, University of Arizona
- 05/2014 – 06/2017 Graduate Research Fellow, National Science Foundation, University of Arizona
- 07/2013 – 04/2014 Graduate Assistant, Department of Ecology and Evolutionary Biology, University of Arizona
- 06/2012 – 05/2013 Director, Council of Student Organizations, Student Government, Florida Atlantic University
- 06/2011 – 05/2012 Chair, Council of Student Organizations, Student Government, Florida Atlantic University

PUBLICATIONS

*indicates undergraduate co-authors

†indicates joint first authorship listed alphabetically

Journal Articles In Review and Preparation:

- Pfefferle, C., Cuestas^{*}, K., Farrah^{*}, B., **Scholl, J.P.**, et al. 2023. Ant-plant defense mutualisms in an urban environment. In preparation.
- Scholl, J.P.**, Kortessis, N., Gudenkauf, G.^{*}, Venable, D.L. 2023. Fitness consequences of heteromorphic seed types in a variable environment. In preparation.
- Scholl, J.P.**, Farrah, B.^{*}, Venable, D.L. 2023. Bet hedging and plasticity: an integrated strategy in a variable environment. In preparation.

Whitfield, Steven M., **Scholl, J.P.**, et al. 2023. The status of the gopher tortoise (*Gopherus polyphemus*) in southeastern Florida. In review.

Published, Peer-Reviewed Journal Articles:

11. **Scholl, J.P.**, Urbina-Casanova, R., Iler, A. 2022. The importance of negative density dependence for rare species persistence. *Biological Conservation*. 274: 109729. DOI: 10.1016/j.biocon.2022.109729
10. †Novak, L., **Scholl, J.P.**, Kiefer, G., Iler, A. 2022. Prescribed burning has limited effects on the population dynamics of rare plants. *Conservation Science and Practice*. e12792. DOI: 10.1111/csp2.12792
9. **Scholl, J.P.**, Calle, L., Miller, N. *, Venable, D.L. 2020. Offspring polymorphism and bet hedging: a large-scale, phylogenetic analysis. *Ecology Letters*. 23.8: 1223-1231. DOI: 10.1111/ele.13522
8. Román-Palacios, C. , **Scholl, J. P.** and Wiens, J. J. 2019. Evolution of diet across the animal tree of life. *Evolution Letters*. 3: 339-347. doi:10.1002/evl3.127
7. Ge, X., **Scholl, J. P.**, Basinger-Walholm, U., Venable, D. L. 2019. Functional trait trade-off and species abundance: insights from a multi-decadal study. *Ecology Letters*. doi:10.1111/ele.13217
6. Wiens, J. J., **Scholl, J. P.** 2019. Letter: Diversification rates, clade ages and macroevolutionary methods. *Proceedings of the National Academy of Sciences*: 201915908. DOI: 10.1073/pnas.1915908116
5. Hansen, W. D., J., **Scholl, J. P.**, et al. * 2018. How do we ensure the future of ecology is vibrant? Student reflections on careers and culture of our discipline. *Ecosphere* (9):2, 1-14.
<http://onlinelibrary.wiley.com/doi/10.1002/ecs2.2099/full>
4. **Scholl, J. P.**, Wiens, J. J. 2016. Diversification rates and species richness across the Tree of Life. *Proceedings of the Royal Society of London* 283: 20161335.
3. Salmon, M. **Scholl, J. P.**, 2014. Allometry in juvenile green and loggerhead sea turtles may serve as an anti-predator defense. *Zoology* (117):2, 131-138.
2. Lauck, M. *, **J. P. Scholl**, and E.M. Frazier. 2013. An Analysis of the Vegetation within the FAU Preserve as a Basis for Management of Scrub Habitat for *Gopherus polyphemus*. *Florida Atlantic University Undergraduate Research Journal* 2:1, 7-14.
1. **Scholl, J. P.**, T. Hindle, and E.M. Frazier. 2012. Population structure and burrow placement of *Gopherus polyphemus* in a small, declining southeast Florida conservation area. *Florida Atlantic University Undergraduate Research Journal* 1:1 23-36.

Other Scholarly Publications:

- Scholl, J. P.**, Ryan, W., Mutz, J. * 2016. Animating the Primary literature for ecologists and other curious people. *Bulletin of the Ecological Society of America* 97:192-199. <http://doi.wiley.com/10.1002/bes2.1231>
- Scholl, J. P.**, M. Salmon. 2013. Growing gains: how small sea turtles outgrow their predators. *Florida Environmental Outreach* (4):3, 10-12.
- Scholl, J. P.** 2013. Student Essay: On Leadership in Teams and Groups. In Komives, S.R., Lucas, N., McMahon, T.R. *Exploring Leadership: for college students who want to make a difference* (319). San Francisco, CA: Jossey-Bass
- Bonilla, N. Omar *, **Joshua P. Scholl**, et al. 2012. Ecological Science and Public Policy: an Intersection of Action Ecology. *Bulletin of the Ecological Society of America* 93:340–345. <http://dx.doi.org/10.1890/0012-9623-93.4.340>

Selected Presentation Abstracts:

- Scholl, J.P.**, Urbina-Casanova, R., Iler, Amy. 2022. Quantitative population extinction risks and qualitative population characteristics that predict extinction in rare species. Chicago Botanic Garden. (Ecological Society of American Meeting).
- Scholl, J.P.**, Novak, Logan., Kiefer, Gretel., Iler, Amy. 2021. The effect of prescribed burning on rare plant species. Chicago Botanic Garden. (Ecological Society of American Meeting).

- Scholl, J. P.**, Venable, D. L. 2018. Plants economics: how plants hedge their bets in a variable environment. University of Arizona. (Ecological Society of America Meeting)
- Scholl, J. P.**, Calle, L. M., Miller, N. M., Venable, D. L. 2016. The occurrence of seed heteromorphism in the deserts of the southwestern USA and northwestern Mexico. University of Arizona. (Ecological Society of America Meeting)
- Scholl, J. P.**, Wiens, J. J. 2015. Diversification rates and species richness across the Tree of Life. (University of Arizona Departmental Seminar)
- Scholl, J.P.**, Salmon, M. 2014. Allometry in juvenile green and loggerhead sea turtles may serve as an anti-predator defense. Florida Atlantic University. (Ecological Society of America Meeting)
- Scholl, J. P.**, Hindle, T., and Frazier, E. M. 2012. Analyzing Gopher Tortoise Habitat Use in an Urban Context Using GIS and R. Florida Atlantic University. (Ecological Society of America Meeting)
- Scholl, J. P.**, E. M. Frazier. 2012. Tortuga Trail: A Living Classroom Approach to Achieving Gopher Tortoise and Upland Habitat Conservation. Florida Atlantic University. (Gopher Tortoise Council Meeting)
- Scholl, J. P.**, T. Hindle, and E. M. Frazier. 2011. Gopher Tortoise Distribution and Habitat Use in a Southeastern Florida Conservation Area. Florida Atlantic University. (Ecological Society of America Meeting)
- Scholl, J. P.**, T. Hindle, and E. M. Frazier. 2011. Gopher Tortoise Population Demography in South Florida. Florida Atlantic University. (Gopher Tortoise Council Meeting)

RESEARCH AND ENVIRONMENTAL EDUCATION GRANTS

- 2019 Ecological Society of America Forrest Shreve Research Grant (\$2000)
- 2017 National Science Foundation Doctoral Dissertation Improvement Grant (DEB-1702050; \$19,813)
- 2016 University of Arizona Research Grant (\$550)
- 2015 Ecological Society of America Centennial Grant (\$2,500)
- 2014 University of Arizona Research Grant (\$800)
- 2014 Arizona Native Plant Society Research Grant (\$700)
- 2014 Arizona Native Plant Society Publication Grant (\$500)
- 2011 Garden Club of America Award for Summer Environmental Studies (\$2,000)
- 2011 Ecological Society of America Special Projects Grant (with the University of Hawaii at Manoa; \$1,700)
- 2011 Gopher Tortoise Council Environmental Education Grant (\$2,000)
- 2011 Florida Atlantic University Student Government Environmental Education Grant (\$15,600)
- 2011 Chicago Herpetological Society Research Grant (\$1,000)
- 2010 Florida Atlantic University Undergraduate Research Grant (\$600)
- 2010 Gopher Tortoise Council Research Grant (\$500)
- 2009 Florida Atlantic University Undergraduate Grant (\$1,500)

AWARDS

Scholarships and Fellowships

- 2019 William G. McGinnies Graduate Scholarship in Arid Lands Studies (\$4,500)
- 2016, '17, '19 Galileo Circle Scholarship (\$3,000)
- 2014 - 2017 National Science Foundation Graduate Research Fellowship (DGE-1143953; \$130,000)
- 2012 Sue Peavy Hughes Scholarship (\$500)
- 2011 National Science Foundation Undergraduate Research and Mentoring Fellowship (\$24,000)
- 2011 Senator Ken Pruitt Scholarship (\$1,000)
- 2008 - 2011 Florida Atlantic University Presidential Scholarship (\$16,000)
- 2010 Florida Atlantic University Dean's Scholarship of Excellence in Biological Science (\$1,000)
- 2008 - 2010 Florida Atlantic University Athletic Scholarship (\$6,000)
- 2008 - 2011 Florida Academic Scholarship (\$14,000)

Honors

- 2019 Outstanding Student Award for Excellence in Teaching, College of Science (\$1000)
- 2019 Outstanding Student Award for Excellence in Teaching, Ecology and Evolutionary Biology (\$100)
- 2018 Outstanding Student Award for Excellence in Service, College of Science (\$1000)
- 2018 Outstanding Student Award for Excellence in Service, Ecology and Evolutionary Biology (\$100)
- 2017 University of Arizona College of Science Best of the Best Service Award (\$1,000)
- 2017 Ford Foundation Dissertation Fellowship Honorable Mention
- 2016 Grad Slam Finalist, University of Arizona Grad Slam (3-minute thesis presentation competition)

2016 Best Environmental Presentation, University of Arizona Grad Slam (\$500)
 2008 - 2012 Florida Atlantic University Presidents List Scholar
 2012 Excellence in Outreach Award Ecological Society of America's SEEDS Program
 2011 - 2012 Invited Talk for the Gopher Tortoise Council Meeting, Orlando, FL
 2011 Nominated for Florida Atlantic University Talon Leadership Award
 2011 Ecological Society of America Best Undergraduate Student Presentation Award
 2011 Excellence Award Ecological Society of America's SEEDS Program
 2011 Florida Atlantic University Student Leader of the Year
 2011 Florida Atlantic University Phi Kappa Phi Scholar Award (\$2,500)
 2010 Valedictorian Graduate FAU Honors Program
 2010 ESPN's the Magazine At-Large Academic All-District First Team
 2010 Nominated Student Athlete of the Year
 2009 - 2010 Sun-Belt Commissioner's List Award

Travel Grants

2018 Plant Population Ecology Travel Award (\$200)
 2014 - 2017 University of Arizona Travel Grant (\$2,800)
 2011 - 2013 Ecological Society of America SEEDS Program Annual Meeting Travel Grant (\$800)
 2012 Gopher Tortoise Council Travel Grant (\$100)
 2011 Florida Atlantic University Student Travel Grant (\$600)
 2011 National Science Foundation Travel Grant (\$1000)
 2011 Turtle Survival Alliance Travel Grant (\$200)
 2010 - 2011 Ecological Society of America's SEEDS Leadership Meeting Travel Grant (\$500)
 2011 Ecological Society of America SEEDS Program New Mexico Field Trip Travel Grant (\$500)

TEACHING

09/2023 – Present Instructor of Record, Florida Atlantic University, *Life Science and Lab*
 09/2021 – 05/2022 Instructor of Record, Northwestern University, *GIS* (undergraduate/graduate level)
 09/2021 – 05/2022 Instructor of Record, Northwestern University, *R Data Science* (undergraduate/graduate level)
 08/2019 – 12/2019 Instructor of Record, University of Arizona, *Ecology* (junior/senior level)
 08/2013 – 05/2014 Graduate Teaching Assistant, University of Arizona, *Introductory Biology*
 08/2017 – 06/2020 Graduate Teaching Assistant, University of Arizona, *Ecology, Evolution, Herpetology, Biodiversity*
 02/2014 – 08/2017 Executive Board Member, Ecomotion Studios, Animated foundational papers in ecology
 01/2012 – 05/2013 Undergraduate Teaching Assistant, Florida Atlantic University, *Life of a Scientist*

PROFESSIONAL AFFILIATIONS

Ecological Society of America
 Chicago Botanic Garden
 Society for the Study of Evolution
 American Association for the Advancement of Science
 Arizona Native Plant Society
 National Society of Collegiate Scholars
 The Honor Society of Phi Kappa Phi
 American Institute of Biological Sciences
 Florida Fish and Wildlife Conservation Commission Gopher Tortoise Authorized Agent

PEER REVIEWER

American Journal of Botany
 Frontiers in Ecology and the Environment
 Ecology Letters
 Evolutionary Applications
 Student Section Travel, Outstanding Student, and Ecoservice awards
 SEEDS Program Travel and Fellowship Awards

University of Arizona Graduate and Professional Student Council Travel Grants
 Florida Atlantic University Undergraduate Research Journal

PROFESSIONAL COMMITTEES

Diversity and Recruitment Committee, Chicago Botanic Garden and Northwestern University, 2020 – 2022
 Science Committee, Ecological Society of America, 2016 – 2019
 Meetings Committee, Ecological Society of America, 2016 – 2017
 Committee on Diversity and Education, Ecological Society of America, 2015 – 2017
 FAU Conservation Committee, Conveyed research findings to optimize management efforts, 2010-2013
 FAU Quality Enhancement Plan (QEP) Committee, Florida Atlantic University 2011-2013

OTHER PROFESSIONAL EXPERIENCE

Organizer Science Research Initiative Field Trip to Rio Mesa Ecological Research Station (UT, USA), 2022
 Co-organizer of SEEDS Leadership Mtg., Southwestern Research Station (AZ, USA), Ecological Society of America, 2018
 Co-organizer of student field trip, Ecological Society of America Meeting, 2015
 Organizer of “Exploring Diverse Career Pathways” workshop, Ecological Society of America Meeting, 2013 – Present
 Co-organizer of “Getting the Most out of ESA” workshop, Ecological Society of America Meeting, 2013 – Present
 Organizer of “Exploring Current Funding Opportunities” workshop, Ecological Society of America Meeting, 2013 – 2016
 Co-organizer of “Ecological Restoration of Johnson Creek” field trip, Ecological Society of America Meeting, 2012
 Co-organizer of the national Ecological Society of America SEEDS Leadership Meeting, 2011

ELECTED POSITIONS

Ecological Society of America Student Section Chair, 2016 – 2017
 Ecological Society of America Student Section Vice-Chair, 2015 – 2016
 Ecological Society of America Student Section Treasurer, 2012 – 2015
 FAU Quality Enhancement Plan Student Sub-Committee Chair, 2011 - 2013
 Strategies for Ecology Education Diversity and Sustainability, a Chapter of the Ecological Society of America
 at Florida Atlantic University, Vice President (2010) and President (2011-2012)
 FAU Quality Enhancement Plan Student Ambassador, Florida Atlantic University, 2011

VOLUNTEER POSITIONS

Society

Arizona-Sonoran Desert Museum Insect Insanity, Ant-barrel cactus booth leader 2018 - 2020
 University of Arizona SEEDS Chapter Founder and Graduate Advisor, 2013 – 2019
 University of Arizona Festival of Books, 2016-2018
 Ecological Society of America Student Section, 2012 – 2017
 Desert Harvesters Food Sustainability Group, Tucson Arizona, 2016
 Tierra Seca Society for Range Management, 2014
 Florida Fish and Wildlife Conservation Commission Volunteer for Invasive Species Program 2011 - 2012
 Sea Turtle Oversight Protection, 2010, 2011
 Florida Atlantic University Council for Scholarship and Inquiry Founder and President, 2011 - 2013
 Florida Atlantic University Undergraduate Research Journal Founder and Manager, 2011 - 2013
 Nationally Coordinated Bioblitz Organizer, FAU, 2010, 2011
 Nature Trail Creation and Environmental Education Project, FAU, 2010 - 2013
 Terrestrial Ecology Laboratory at Florida Atlantic University (Co-Founder), 2010 - 2013
 Guest Lecturer, “Reptile Biodiversity” in Biodiversity (BSC 1011), Florida Atlantic University, 2011

Media

University of Utah SEEDS Chapter, 2022 – Present
 Animating the Foundations of Ecology, Ecomotion Studios, 2015 – 2018
 Florida Atlantic University Animals Blog, FAU Press: 2011
 Trading Wildlife for Students, Florida Atlantic University Press, 2011
 Tortoise Champion Takes Cause to FAU’s President, Palm Beach Post Newspaper, 2011
 Animals might lose habitat as FAU’s Preserve keeps shrinking, Florida Atlantic University Press, 2011
 Highlighting Undergraduate Research, The Florida Channel, 2011