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## DANIEL J. MCGLINN

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Associate Professor  
Biology Department, College of Charleston  
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### EDUCATION

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**Doctor of Philosophy**, Plant Sciences 2004-2009  
Oklahoma State University, advisor: Michael W. Palmer Stillwater, OK  
Spatial and Temporal Scaling of Species Composition at the  
Tallgrass Prairie Preserve, Oklahoma: Implications for Theory and  
Conservation

**Bachelor of Science**, Biology with Honors 2000-2004  
University of North Carolina, advisor: Robert K. Peet Chapel Hill, NC

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### PROFESSIONAL EXPERIENCE

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*Associate Professor*, College of Charleston 2020-  
*Assistant Professor*, College of Charleston 2014-2020  
*Postdoctoral Researcher*, Utah State University with Ethan White 2011-2014  
*Postdoctoral Researcher*, University of North Carolina with Allen Hurlbert 2009-2011  
*Teaching Assistant*, Oklahoma State University, Plant Biology Lab 2008-2009  
*EPA GRO Research Fellow*, Oklahoma State University 2005-2008  
*Teaching Assistant*, Oklahoma State University, Ecology Lab 2004-2005

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### FUNDING & ACADEMIC AWARDS

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#### External

***Changing Face of Coastal South Carolina: Building a Resilient Future*** 2022-  
South Carolina Sea Grant Consortium \$110,800  
***Sabbatical Scholar Fellowship*** 2020-2021  
German Centre for Integrative Biodiversity Research, \$100,000  
***Below Ground Processes Proposal*** 2015-2018  
DOE proposal, \$150,000; PI: A. Strand, Co-PI: S. Pritchard  
***Greater Research Opportunities Fellowship*** 2005-2008  
Environmental Protection Agency, \$100,000  
***Enhancing Linkages between Mathematics & Ecology Scholarship*** 2007  
Michigan State University, \$500  
***Research Experience for Undergraduate Fellowship*** 2003  
National Science Foundation

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**Internal**

<b>SSM summer undergraduate research award</b> (10 successful proposals) College of Charleston, \$40,000	2018-2024
<b>EVSS Graduate Research Assistantship</b> (2 successful student proposals) College of Charleston, \$27,000	2021
<b>Summer Undergraduate Research with Faculty</b> (1 successful proposal) College of Charleston, \$6,500	2020
<b>Distinguished Graduate Fellowship</b> Oklahoma State University, \$1,000	2005-2008
<b>LeClair Award, Academic Excellence in Plant Science</b> University of North Carolina Biology Department	2004
<b>Undergraduate Research Fellowship</b> The Smallwood Foundation, \$2,000	2003

**PUBLICATIONS** (\* student author) ([google scholar](https://scholar.google.com/), H-index = 44)

50. **McGlinn, D.J.**, S.A. Blowes, M. Dornelas, T. Engel, I.S. Martins, H. Shimadzu, N.J. Gotelli, A. Magurran, B. McGill, and J.M. Chase. 2025. Disentangling non-random structure from random placement when estimating  $\beta$ -diversity through space or time. *Ecosphere*. e70061. <https://doi.org/10.1002/ecs2.70061>
49. Barratt Heitmann, J. \*, T. H. Folk, L. J. Lord, and **D. J. McGlinn**. 2025. Geographically isolated wetlands have higher alpha diversity than surrounding uplands in pine savanna ecosystems. *Wetlands Ecology and Management* 33:18. <https://doi.org/10.1007/s11273-025-10035-6>
48. Perkins-Taylor, C.M. \*, W.E. McFee, **D.J. McGlinn**, T.W. Greig, and N.S. Levine. 2024. Utilizing Drones to Assess the Body Condition of Tamanend's Bottlenose Dolphins (*Tursiops erebennus*) in the Charleston Estuarine System. *Aquatic Mammals*. 50:526-548. <https://doi.org/10.1578/AM.50.6.2024.526>
47. Blowes, S.A., B McGill, V. Brambilla, C.F.Y. Chow, T. Engel, A. Fontrodona-Eslava, I.S. Martins, **D.J. McGlinn**, F. Moyes, A. Sagouis, H. Shimadzu, R. van Klink, W. Xu, N.J. Gotelli, A. Magurran, M. Dornelas, and J.M. Chase. 2024. Local changes dominate variation in biotic homogenization and differentiation. *Science Advances*. 10:eadj9395 <https://doi.org/10.1126/sciadv.adj9395>
46. Hu, B., **D.J. McGlinn**, X. Zhao, K. von Gadow, and C. Zhang. 2024. Latitudinal richness patterns in a temperate forest region: disentangling the effects of evenness, density and aggregation. *Ecological Indicators*. 158:111528 <https://doi.org/10.1016/j.ecolind.2023.111528>
45. Callaghan, C., J.M. Chase, **D.J. McGlinn**. 2024. Anthropogenic habitat modification causes multiscale bird diversity declines due to decreasing number of individuals. *Ecography*. e06759. <https://doi.org/10.1111/ecog.06759>
44. Xu, W., S.A. Blowes, V. Brambilla, C.F.Y. Chow, A. Fontrodona-Eslava, I.S. Martins, **D.J.**

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- McGlinn**, F. Moyes, A. Sagouis, H. Shimadzu, R. van Klink, A.E. Magurran, N.J. Gotelli, B.J. McGill, M. Dornelas, J.M. Chase. 2023. Widespread species increase while narrow-ranged species decrease regional occupancy in metacommunity time series. *Nature Communications*. 14:1463. <https://doi.org/10.1038/s41467-023-37127-2>
43. Blowes, S.A, G.N. Daskalova, M. Dornelas, T. Engel\*, N.J. Gotelli, A. Magurran, I.S. Martins, B. McGill, **D.J. McGlinn**, A. Sagouis, H. Shimadzu, S.R. Supp, and J.M. Chase. 2022. Local biodiversity change reflects interactions among changing abundance, evenness and richness. *Ecology*. 103:e3820. <https://doi.org/10.1002/ecy.3820>
42. Lewis, A.S.L.\* , C.R. Rollinson, A.J. Allyn, J. Ashander, S. Brodie, C.B. Brookson, E. Collins, M.C. Dietze, A.S. Gallinat, N. Juvigny-Khenafou, G. Koren, **D.J. McGlinn**, H. Moustahfid, J.A. Peters, N.R. Record, C.J. Robbins, J. Tonkin, and G.M. Wardle. 2022. The power of forecasts to advance ecological theory. *Methods in Ecology and Evolution*. 14:746-756. <https://doi.org/10.1111/2041-210X.13955>
41. Engel, T.\* , S.A. Blowes, **D.J. McGlinn**, N.J. Gotelli, B.J. McGill, and J.M. Chase. 2022. How does variation in total and relative abundance contribute to gradients of species diversity? *Ecology and Evolution* 12:e9196. <https://doi.org/10.1002/ece3.9196>
40. Engel, T.\* , S.A. Blowes, **D.J. McGlinn**, F. May, N.J. Gotelli, B.J. McGill, J.M. Chase. 2021. Resolving the species pool dependence of beta-diversity using coverage-based rarefaction. *Ecosphere*. 12:e03745. <https://doi.org/10.1002/ecs2.3745>
39. Keil, P., T. Wiegand, A.B. Tóth, **D.J. McGlinn**, and J.M. Chase. 2021. Measurement and analysis of interspecific spatial associations as a facet of biodiversity. *Ecological Monographs*. 91:e01452. <https://doi.org/10.1002/ecm.1452>
38. Pickens, C.\* , T. Smart, M. Reichert, G. R. Sedberry, and **D.J. McGlinn**. 2021. No effect of marine protected areas on managed reef fish species in the southeastern United States Atlantic Ocean. *Regional Studies in Marine Science*. 44:101711. <https://doi.org/10.1016/j.rsma.2021.101711>
37. Senyondo, H., **D.J. McGlinn**, P. Sharma, D.J. Harris, H. Ye, S.D. Taylor, J. Ooms, F. Rodriguez-Sanchez, K. Ram, A. Pandey, H. Bansal, M. Pohlman, E.P. White. 2021. Rdataretriever: R Interface to the Data Retriever. *Journal of Open Source Software*. 6:2800. <https://doi.org/10.21105/joss.02800>
36. **D.J. McGlinn**, T. Engel\*, S.A. Blowes, N.J. Gotelli, T.M. Knight, B.J. McGill, N. Sanders, J.M. Chase. 2021. A multi-scale framework for disentangling the roles of evenness, density and aggregation on diversity gradients. *Ecology*. 102:e03233. <https://doi.org/10.1002/ecy.3233>
35. Mirza, B.S., **D.J. McGlinn**, B.J.M. Bohannan, K. Nüsslein, J.M. Tiedje, J.L.M. Rodrigues. 2020. Diazotrophs show sign of restoration in Amazon rainforest soils with ecosystem rehabilitation. *Applied and Environmental Microbiology*. 86:e00195-20. <https://doi.org/10.1128/AEM.00195-20>
34. Julien, A.R.\* , **D.J. McGlinn**, A.W. Tweel, and P.R. Kingsley-Smith. 2020. Associations between nekton assemblages and Ribbed Mussel (*Geukensia demissa*) patches in a South

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- Carolina salt marsh. *Southeastern Naturalist*. 19:45-61. <https://doi.org/10.1656/058.019.0104>
33. Blowes, S.A., J.M. Chase, A. Di Franco, O. Frid, N.J. Gotelli, P. Guidetti, T.M. Knight, F. May, **D.J. McGlinn**, F. Micheli, E. Sala, J. Belmaker. 2020. Mediterranean marine protected areas have higher biodiversity via increased evenness, not abundance. *Journal of Applied Ecology*. 57:578-589. <https://doi.org/10.1111/1365-2664.13549>
32. **McGlinn, D.J.** and M.W. Palmer. 2019. Examining the foundations of heterogeneity-based management for promoting plant diversity in a disturbance-prone ecosystem. *PeerJ*. e6738. <https://peerj.com/articles/6738/>
31. Julien, A.R. \*, A.W. Tweel, **D.J. McGlinn**, G.W. Sundin, N.H. Hadley, and P.R. Kingsley-Smith. 2019. Characterization of Ribbed Mussel *Geukensia demissa* (Dillwyn, 1817) Habitat in Relation to Tidal Elevation and Salinity in a South Carolina Estuary. *Journal of Shellfish Research*. 38:53-61.
30. **McGlinn, D.J.** and M.W. Palmer. 2019. Spatial Scale and Biodiversity. In *Oxford Bibliographies*. Ed. David Gibson. New York: Oxford University Press. <https://doi.org/10.1093/OBO/9780199830060-0210>
29. **McGlinn, D.J.** X. Xiao, F. May, N. Gotelli, T. Engel\*, S. Blowes, T. Knight, O. Purschke, J. Chase, and B. McGill. 2019. MoB (Measurement of Biodiversity): a method to separate the scale-dependent effects of species abundance distribution, density, and aggregation on diversity change. *Methods in Ecology and Evolution*. 10:258-269. <https://doi.org/10.1111/2041-210X.13102>
28. Chase, J.M., B. McGill, **D.J. McGlinn**, F. May, S.A. Blowes, X. Xiao, T. Knight. O. Purschke, and N. Gotelli. 2018. Embracing scale-dependence to achieve a deeper understanding of biodiversity and its change across communities. *Ecology Letters*. 21:1737-1751. <https://doi.org/10.1111/ele.13151>
27. Zanne, A. E., W.D. Pearse, W.K. Cornwell, **D.J. McGlinn**, I.J., Wright. and J.C., Uyeda. 2018. Functional biogeography of angiosperms: life at the extremes. *New Phytologist*. 218:1697-1709. <https://doi.org/10.1111/nph.15114>
26. May, F., K. Gerstner, **D.J. McGlinn**, X. Xiao, J.M. Chase. 2018. mobsim: An R package for the simulation and measurement of biodiversity across spatial scales. *Methods in Ecology and Evolution*. 9:1401-1408. <https://doi.org/10.1111/2041-210X.12986>
25. Archibald, S., C. Lehmann, 10 other authors, **D.J. McGlinn**, and 11 more authors. 2018. Biological and geophysical feedbacks with fire in the Earth System. *Environmental Research Letters*. 13:033003. <https://doi.org/10.1088/1748-9326/aa9ead>
24. Morris, H., M.A.F Gillingham, L. Plavcová, S.M. Gleason, M.E Olson, D.A. Coomes, E. Fichtler, M.M. Klepsch, H.I. Martínez-Cabrera, **D.J. McGlinn**, E.A. Wheeler, J. Zheng, K. Ziemińska, and S. Jansen. 2018. Vessel diameter is related to amount and spatial arrangement of axial parenchyma in woody angiosperms. *Plant, Cell & Environment*. 41:245-260. <https://doi.org/10.1111/pce.13091>
23. Rougier, N.P., 24 other authors, **D.J. McGlinn**, and 19 more authors. 2017. Sustainable computational science: the ReScience initiative. *PeerJ Computer Science*. 3:e142.

<https://doi.org/10.7717/peerj-cs.142>

22. Mirza, B.S., D.L. Sorensen, **D.J. McGlinn**, R.R. Dupont, J.E. McLean. 2017. *Dehalococcoides* and general bacterial ecology of differentially trichloroethene dechlorinating flow-through columns. *Applied microbiology and biotechnology*. 101:4799-4813. <https://doi.org/10.1007/s00253-017-8180-1>
21. Palmer, M. W. and **D.J. McGlinn**. 2017. Scale detection using semivariograms and autocorrelograms. in S. E. Gergel and M. G. Turner, editors. *Learning Landscape Ecology: A Practical Guide to Concepts and Techniques*. 2<sup>nd</sup> edition. Springer-Verlag New York. <https://doi.org/10.1007/978-1-4939-6374-4>
20. Maherali, H., B. Oberle, P.F. Stevens, W.K. Cornwell, and **D.J. McGlinn**. 2016. Mutualism Persistence and Abandonment during the Evolution of the Mycorrhizal Symbiosis. *American Naturalist*. 188:E113-E125. <https://doi.org/10.1086/688675>
19. Morris, H., L. Plavcová, P. Cvecko, E. Fichtler, M.A.F. Gillingham, H.I. Martínez-Cabrera, **D.J. McGlinn**, E. Wheeler, J. Zheng, K. Ziemińska, S. Jansen. 2016. A global analysis of parenchyma tissue fractions in secondary xylem of seed plants. *New Phytologist*. 209:1553-1565. <https://doi.org/10.1111/nph.13737>
18. **McGlinn, D.J.**, X. Xiao\*, J. Kitzes, E.P. White. 2015. Exploring the spatially explicit predictions of the Maximum Entropy Theory of Ecology. *Global Ecology and Biogeography*. 24:675-684. <https://doi.org/10.1111/geb.12295>
17. Thapa, V.T. \*, **D.J. McGlinn**, P.W. Palmer, and U. Melcher. 2015. Determinants of composition of plant viruses at the Nature Conservancy's Tallgrass Prairie Preserve, Oklahoma. *Virus Evolution*. 1:vev007. <https://doi.org/10.1093/ve/vev007>
16. Xiao, X. \* **D.J. McGlinn**, and E.P. White. 2015. A strong test of the Maximum Entropy Theory of Ecology. *American Naturalist*. 185:E70-E80. <https://doi.org/10.1086/679576>
15. Cornwell, W.K., M. Westoby, D.S. Falster, R.G. FitzJohn, B.C. O'Meara, **D.J. McGlinn**, and 21 other authors. 2014. Functional distinctiveness of major plant lineages. *Journal of Ecology*. 102: 345-356. <https://doi.org/10.1111/1365-2745.12208>
14. Zanne, A. D.C. Tank, W.K. Cornwell, **D.J. McGlinn**, and 23 other authors. 2014. Three keys to the radiation of angiosperms into freezing environments. *Nature*. 506: 89-92. <https://doi.org/10.1038/nature12872>
13. **McGlinn, D.J.**, X. Xiao\*, and E.P. White. 2013. An empirical evaluation of four variants of a universal species-area relationship. *PeerJ*. 1: e212. <https://doi.org/10.7717/peerj.212>
12. White, E.P., E. Baldrige\*, Z.T. Brym\*, K.J. Locey\*, **D.J. McGlinn**, and S.R. Supp\*. 2013. Nine simple ways to make it easier to (re)use your data. *Ideas in Ecology and Evolution*. 6: 1-10. <https://doi.org/10.4033/iee.2013.6b.6.f>
11. **McGlinn, D.J.** and A.H. Hurlbert. 2012. Scale dependence in species turnover reflects variance in species occupancy. *Ecology*. 93: 294-302. <https://doi.org/10.1890/11-0229.1>
10. Scheiner, S.M., A. Chiarucci, G.A. Fox, M.R. Helmus, **D.J. McGlinn**, and M.R. Willig. 2011. The underpinnings of the relationship between space, time, and species richness.

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- Ecological Monographs*. 81: 195-213. <https://doi.org/10.1890/10-1426.1>
9. Rocchini, D., **D.J. McGlinn**, C. Ricotta, M. Neteler, T. Wohlgemuth. 2011 Landscape complexity and spatial scale influence the relationship between remotely sensed spectral diversity and survey-based plant species richness. *Journal of Vegetation Science*. 22: 688-698. <https://doi.org/10.1111/j.1654-1103.2010.01250.x>
  8. **McGlinn, D.J.** and M.W. Palmer. 2011. Quantifying the influence of environmental texture on the rate of species turnover – evidence from two habitats. *Plant Ecology*. 212: 495-506. <https://doi.org/10.1007/s11258-010-9840-8>
  7. **McGlinn, D.J.** and M.W. Palmer. 2010. Spatial structure alters the shape of the unimodal species richness-biomass relationship in a neutral model. *Diversity*. 2:550-560. <https://doi.org/10.3390/d2040550>
  6. **McGlinn, D.J.**, P.G. Earls, and M.W. Palmer. 2010. A twelve-year study on the scaling of vascular plant composition in an Oklahoma Tallgrass Prairie. *Ecology*. 91: 1872. <https://doi.org/10.1890/09-2017.1>
  5. **McGlinn, D.J.**, R.J. Churchill, and M.W. Palmer. 2010. Effects of a tornado on a Cross Timbers bird community. *The Southwestern Naturalist*. 55: 460-466. <https://doi.org/10.1894/KF-09.1>
  4. **McGlinn, D.J.** and M.W. Palmer. 2009. Modeling the sampling effect in the species-time-area relationship. *Ecology*. 90:836-846. <https://doi.org/10.1890/08-0377.1>
  3. Palmer, M.W., **D.J. McGlinn**, L. Westerberg, P. Milberg. 2008. Indices for detecting differences in species composition: some simplifications of RDA and CCA. *Ecology*: 89:1769-1771.
  2. Palmer, M.W., **D.J. McGlinn**, and J.F. Fridley. 2008. Artifacts and artificions in biodiversity research. *Folia Geobotanica*. 43:245-257. <https://doi.org/10.1007/s12224-008-9012-y>
  1. Applequist, W.L., **D.J. McGlinn**, M. Miller, Q.G. Long, and J.S. Miller. 2007. How well do herbarium data predict the location of present populations? A test using *Echinacea* species in Missouri. *Biodiversity and Conservation*. 16:1397-1407. <https://doi.org/10.1007/s10531-006-6737-x>

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#### MANUSCRIPTS (\*student author)

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- Caughron, J.\*, C.J Plante, M.J.M. Reichert, T.I. Smart, **D.J McGlinn**. *in review*. Fish diversity drives regional productivity but not stability in southeastern United States coastal marine fishes. *Global Ecology and Biogeography*. Preprint: <https://doi.org/10.1101/2021.11.10.468121>
- Sheahan, E. \*, G. Naylor, and **D.J. McGlinn**. *in review*. Does niche conservatism or resources explain global patterns of shark species richness along temperature gradients? *Global Ecology and Biogeography*. Preprint: <https://doi.org/10.1101/2022.04.15.488537>



**McGlinn, D.J.** and E.P. White. *in prep.* Multi-Scale modeling to predict commonness and rarity across continents. <https://doi.org/10.6084/m9.figshare.1112448.v1>

## NON-PEER REVIEWED PUBLICATIONS

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**McGlinn, D.J.** 2012. Dictionaries are a scientist's friend. Software Carpentry Blog.

Gilmore, M.J. and **D.J. McGlinn**. 2008. General Biology Lab Manual. Northern Oklahoma College.

**McGlinn, D.J.** 2007. New species discovered. The Docent News of the Tallgrass Prairie Preserve. The Nature Conservancy. July edition.

## SOFTWARE PRODUCTS

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Oksanen J., F.G. Blanchet, M. Friendly, R. Kindt, P. Legendre, **D.J. McGlinn**, P.R. Minchin, R. B. O'Hara, G.L. Simpson, P. Solymos, M.H.H. Stevens, E. Szoecs, H. Wagner. vegan: community ecology package. <https://CRAN.R-project.org/package=vegan>

**McGlinn, D.J.**, X. Xiao, F. May, T. Engel, C. Oliver. mobr: partition diversity patterns into their components across scales. <https://github.com/MoBiodiv/mobr>

**McGlinn, D.J.** and C. Oliver. mobr\_app: R shiny app for the R package mobr. [https://github.com/MoBiodiv/mobr\\_app](https://github.com/MoBiodiv/mobr_app)

**McGlinn, D.J.** and E.P. White. rdataretriever: R interface to the EcoData Retriever. <https://github.com/ropensci/rdataretriever>

**McGlinn, D.J.** vario: community variograms and associated null models. <https://github.com/mcglinnlab/vario>

Locey, K. and **D.J. McGlinn**. rpartitions: code for integer partitioning. <https://github.com/klocey/partitions/tree/master/rpartitions>

Chamberlain, S., C. Boettiger, K. Ram, V. Barve, **D.J. McGlinn**. rGBIF: Interface to the Global Biodiversity Information Facility API methods. <https://github.com/ropensci/rgbif/tree/newapi>

E.P. White, **D.J. McGlinn**, X. Xiao, S. Supp, K. Thibaut. Software for Analyzing Harte et al.'s Maximum Entropy Theory of Ecology. <http://dx.doi.org/10.6084/m9.figshare.815905>

## TEACHING EXPERIENCE

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<i>Non-majors Biology II</i> . Full semester course. <b>Lecturer</b> . College of Charleston. Charleston SC.	2024-
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<i>Botany</i> . Full semester course. <b>Lecturer</b> . College of Charleston. Charleston SC.	2022
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<i>Measurements of Biodiversity (MoB)</i> . Workshop. <b>Organizer and Lecturer</b> . German Centre for Integrative Biodiversity yDiv, Leipzig, Germany.	2018
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<i>The Empiricists' Guide to the Analysis of Biodiversity Data Across Scales</i> . Workshop. <b>Organizer and Lecturer</b> . Ecological Society of America. 101 <sup>st</sup>	2017
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Annual meeting. Portland, OR.	
<i>Statistical Programming for Biologists</i> . Full semester course. <b>Lecturer</b> . College of Charleston. Charleston, SC.	2015-
<i>Biodiversity, Ecology, and Conservation Biology</i> . Full semester course. <b>Lecturer</b> . College of Charleston. Charleston, SC.	2014-
<i>Community Assembly</i> . Full semester course. <b>Lecturer</b> . Utah State University. Logan UT.	2013
<i>Software Carpentry Bootcamp</i> . Workshop. <b>Organizer and Lecturer</b> . Utah State University. Logan, UT.	2013
<i>Macroecology</i> . Full semester course. <b>Guest Lecturer</b> . Utah State University. Logan, UT.	2012
<i>Advanced Programming for Biologists</i> . Full semester course. <b>Guest Lecturer</b> . Utah State University. Logan, UT.	2012
<i>Introduction to Programming for Biologists</i> . Full semester course. <b>Guest Lecturer</b> . Utah State University. Logan, UT.	2012
<i>Advanced Modeling for Biologists using R</i> . Full semester course. <b>Lecturer</b> . University of North Carolina. Chapel Hill, NC.	2011
<i>Avian Biology</i> . Full semester course. <b>Guest Natural Historian</b> . University of North Carolina. Chapel Hill, NC.	2009-2010
<i>Plant Biology Lab</i> . Full semester course. <b>Teaching Assistant</b> . Oklahoma State University. Stillwater, OK.	2008-2009
<i>Multivariate Methods for Community Ecology</i> . Full semester course. <b>Guest Lecturer</b> . Oklahoma State University. Stillwater, OK.	2007
<i>Introductory Biology Lecture and Lab</i> . Full semester course. <b>Guest Lecturer</b> . Northern Oklahoma College. Tonkawa, OK.	2007-2009
<i>General Ecology Lab</i> . Full semester course. <b>Teaching Assistant</b> . Oklahoma State University. Stillwater, OK.	2004-2005
<i>General Ecology</i> . Full semester course. <b>Guest Lecturer</b> . Oklahoma State University. Stillwater, OK.	2004-2009

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#### WORKING GROUP PARTICIPATION

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<i>Measurement of Biodiversity (MoB) framework for beta-diversity</i> . <b>Participant</b> .	2020
<i>Symposium on the Mobilization of Structured Biodiversity Data</i> . German Centre for Integrative Biodiversity Research. <b>Participant</b> .	2017
<i>Measurement of Biodiversity (MoB)</i> . German Centre for Integrative Biodiversity Research. <b>Organizer</b> .	2015-2016



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<i>Scaling UP: Population and Community Ecology. A Workshop for Early Career Scientists.</i> Ecological Society of America. <b>Participant.</b>	2013
<i>Tempo and mode of plant trait evolution: synthesizing data from extant and extinct taxa.</i> National Evolutionary Synthesis Center. <b>Participant.</b>	2011-2013

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## RESEARCH MENTORSHIP

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### Primary Advisor Undergraduate

Matthew McDonald, Biology Undergraduate Research Program. Monitoring anuran biodiversity using passive acoustics.	2022-
Alannah Burrill, Biology Undergraduate Research Program. Plant communities associated with ephemeral wetlands.	2022-
Sophia Bernstein, Biology Honors Undergraduate Research Program. Optimizing indoor saltwater agriculture using <i>Salicornia europaea</i> . <i>SURF summer research award recipient.</i>	2019-2020
Kaitlyn Roberts, Biology Undergraduate Research Program. How planting density affects the growth and yield of <i>Salicornia</i> spp. <i>SSM summer research award recipient.</i>	2019-2020
Ashley Woods, Biology Undergraduate Research Program. SOAR: species occurrence aggregation in R. <i>SSM summer research award recipient.</i> repo: <a href="https://github.com/mcglinnlab/soar">https://github.com/mcglinnlab/soar</a>	2018-2020
Nicole Strauss, Biology Undergraduate Research Program. Response of herpetofauna to prescribed fire in the Francis Marion National Forest. <i>SSM summer research award recipient, 1<sup>st</sup> gen. undergraduate student.</i> repo: <a href="https://github.com/mcglinnlab/fire_herps">https://github.com/mcglinnlab/fire_herps</a>	2018-2020
Savannah Spencer, Biology Undergraduate Research Program. Response of herpetofauna to prescribed fire in the Francis Marion National Forest. repo: <a href="https://github.com/mcglinnlab/fire_herps">https://github.com/mcglinnlab/fire_herps</a>	2018
Emmaline Sheahan, Biology Honors Undergraduate Program. Suitability of ecological and evolutionary processes as explanations of the global temperature-diversity gradient in sharks. <i>SSM summer research award recipient.</i> repo: <a href="https://github.com/mcglinnlab/shark-ray-div">https://github.com/mcglinnlab/shark-ray-div</a>	2017-2020
Samuel McCauley, Biology Honors Undergraduate Program. Twenty years of vegetation change in the longleaf forests of the Francis Marion National Forest. <i>Currently: PhD program at University of Idaho. 1<sup>st</sup> gen. undergraduate.</i> repo: <a href="https://github.com/smccau/santee_fire">https://github.com/smccau/santee_fire</a>	2016

### Primary Advisor Graduate

Isabelle Barnes, Masters in Environmental Science. Drivers of brown-headed	2023-
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nuthatch and Bachman's sparrow population trends in longleaf pine ecosystem.

Ansley Williamson, Masters in Environmental Science. What can the soundscape of ephemeral wetlands tell us about the drivers of songbird and anuran community composition and diversity? *EVSS Graduate Assistantship winner*.  
[https://github.com/mcglinnlab/wetland\\_bird\\_acoustic](https://github.com/mcglinnlab/wetland_bird_acoustic)

Jackson Barratt Heitman, Masters in Environmental Science. How does disturbance shape avian community composition and diversity in ephemeral wetlands? *EVSS Graduate Assistantship winner & SeaGrant funded*.  
[https://github.com/mcglinnlab/wetland\\_birds](https://github.com/mcglinnlab/wetland_birds)

Juliane Caughron, Graduate Program in Marine Biology. Scaling-up the diversity-stability relationship in fisheries. *Joanna Deep Water Summer fellow*. repo:  
[https://github.com/mcglinnlab/fish\\_stability](https://github.com/mcglinnlab/fish_stability)

Samuel Norton, Masters in Environmental Science. Environmental restoration using *Salicornia virginica* an emerging economically important native plant. *SC Dept. of Ag. ACRE fellow*.

Nathan Baker, Graduate Program in Marine Biology. Temporal and spatial changes in fish biodiversity along the southeastern Atlantic coast of the United States. *1<sup>st</sup> gen. graduate student*. <https://github.com/mcglinnlab/fishdiv>

### **Graduate Committee member**

Nate Elston, Masters of Marine Biology Program. 2023-

Colin Perkins-Taylor, Masters of Marine Biology Program. 2021-2023

Lindsey Transue, Masters of Marine Biology Program. 2020-2022

Josiah Water, Masters of Marine Biology Program. 2020-2023

Morgan Will, Masters of Marine Biology Program. 2020-2023

Robin Minch, Masters of Marine Biology Program. 2020-2023

Cassandra Evanchuck, Masters of Marine Biology Program. 2020-2021

Kayla Pehl, Masters of Environmental Science. 2020-2021

Christopher Pickens, Masters of Marine Biology Program. 2017-2019

Alejandra Enriquez, Masters of Marine Biology Program. 2017-2018

Chelsea Acres, Masters of Environmental Science. 2017-2018

Asa Julien, Masters of Marine Biology Program. 2016-2018

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Jordon Taylor, Masters of Marine Biology Program.	2016-2017
Margaret Walker, Masters of Marine Biology Program.	2015-2017

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### INVITED SEMINARS

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University of South Carolina ( <a href="#">slides link</a> )	2023
University of Vermont. ( <a href="#">slides link</a> )	2018
Oklahoma State University. ( <a href="#">slides link</a> )	2017
Clemson University. Biology Department.	2015
University of North Carolina. Curriculum for the Environment and Ecology.	2010
East Carolina University. Biology Department	2010
Appalachian State University. Biology Department	2009
University of New Mexico. James H Brown's Macroecology Lab	2005

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### NATIONAL AND INTERNATIONAL CONFERENCE PRESENTATIONS

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<b>McGlinn, D.J.</b> et al. Ecological Society of America. Portland, OR ( <a href="#">poster link</a> )	2023
<b>McGlinn, D.J.</b> et al. Ecological Forecasting Initiative Virtual Conference ( <a href="#">poster link</a> )	2022
<b>McGlinn, D.J.</b> et al. Ecological Society of America. Portland, OR ( <a href="#">poster link</a> )	2017
<b>McGlinn, D.J.</b> et al. Ecological Society of America. Ft. Lauderdale, FL ( <a href="#">slides link</a> )	2016
<b>McGlinn, D.J.</b> and E.P. White. Gordon Research Conference. Biddeford, ME	2014
<b>McGlinn, D.J.</b> and E.P. White. Ecological Society of America. Minneapolis, MN.	2013
<b>McGlinn, D.J.</b> and E.P. White. Gordon Research Conference. Biddeford, ME.	2012
<b>McGlinn, D.J.</b> and A.H. Hurlbert. Ecological Society of America. Austin, TX.	2011
<b>McGlinn, D.J.</b> and A.H. Hurlbert. Ecological Society of America. Pittsburgh, PA.	2010
<b>McGlinn, D.J.</b> Lunch Bunch Seminar Series. University of North Carolina.	2010
<b>McGlinn, D.J.</b> and M.W. Palmer. Ecological Society of America. Milwaukee, WI	2008
<b>McGlinn, D.J.</b> and M.W. Palmer. Ecological Society of America. San Jose, CA.	2007
<b>McGlinn, D.J.</b> and M.W. Palmer. Ecological Society of America. Memphis, TN.	2006
<b>McGlinn, D.J.</b> Southwestern Association of Naturalists. Huntsville, TX.	2005

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### COMMUNITY OUTREACH AND NEWS COVERAGE

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Buist Academy. Charleston, SC. 6-8 <sup>th</sup> grade. <i>Middle-school soccer coach</i>	2024-
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Friends of James Simons. Non-profit 501c3 organization. Director of Communications.	2020-2023
James Simons School. Charleston, SC. Pre-K-8 <sup>th</sup> grade Title I. <i>Reading coach, Gardener, Naturalist, Middle-school soccer coach</i>	2017-2024
Logan Nerd Night. <i>Deciphering Universal Patterns of Biodiversity.</i>	2013
Utah Public Radio. Zesty Garden. <i>How Flowering Plants Adapted to Cold.</i>	2013
Utah Public Radio. Access Utah. <i>'Plants Evolve For Colder Temperatures: Evolution.'</i>	2013
Utah State Today. <i>'How Do Plants Survive in a Winter Wonderland?' asks USU Ecologist.</i>	2013
Standard-Examiner. <i>How Did Plants Live When Earth Went Cold?</i>	2013
Payne County Audubon. <i>Effects of a tornado on a Cross Timbers bird community.</i>	2007

### **CAMPUS AND DEPARTMENTAL SERVICE**

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#### Campus-wide Committees

<i>Darwin Week Committee</i>	2022-
<i>Stono Preserve Advisory Committee</i>	2019-
<i>Mentoring Matters faculty mentor for minority students</i>	2024
<i>Science and Math IT Advisory Board</i>	2018-2020
<i>Faculty Senate</i>	2018-2019
<i>Graduate Student Research Colloquium Committee – participant ('18), chair ('19), &amp; co-chair ('20, '21)</i>	2018-2021
<i>SURF Grant Reviewer</i>	2018, 2023, 2024
<i>Graduate School Application Reviewer – Masters in Environmental Studies</i>	2017

#### Departmental Committees

Faculty search committee chair	2021-2022
Adjunct Committee	2021
Library liaison	2015-2018
Research and Development	2015-2016
Awards committee	2018-2019
Chair's advisory committee	2017-2018
Safety committee	2018-2023
Faculty search committee member (x3)	2018-2019
	2017-

#### Broader Scientific Community

Editor at <i>Ecology Letters</i>	2021-
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Editor at <i>Global Ecology and Biogeography</i>	2023-
NOAA proposal ad hoc reviewer	2019
NSF proposal ad hoc reviewer	2017
Reviewed manuscripts: <i>Ecology Letters</i> (19), <i>Global Ecology and Biogeography</i> (13), <i>Ecology</i> (5), <i>Ecography</i> (4), <i>Methods in Ecology and Evolution</i> (3), <i>Nature</i> (1), <i>Oecologia</i> (1), <i>Natural Areas Journal</i> (1), <i>The American Naturalist</i> (1), <i>Oikos</i> (1), <i>Evolutionary Ecology</i> (1).	2009-