

Shawn David Taylor

PhD Candidate - University of Florida

Email: shawntaylor@weecology.org

Website: sdtaylor.github.io

Github: github.com/sdtaylor

Twitter: [dataEcologist](https://twitter.com/dataEcologist)

110 Newins-Ziegler Hall, PO Box 110430, Gainesville, FL 32611-0430

Education

PhD in Ecology | 2015-Present | Expected Dec. 2019 | University of Florida | Gainesville, FL | [White Lab](#)

Dissertation: Forecasting plant phenology: an assessment of data sources and estimators, and a fully automated implementation

- Making near term phenology forecasts. <http://phenology.naturecast.org>

BS in Ecology and Conservation Biology | 2012 | University of Idaho | Moscow, ID

- Senior Thesis: Influences of soil and spatial properties on *Bromus tectorum* distribution after fire

AS in Computer Networking | 2005 | Truckee Meadows Community College | Reno, NV

Publications

Google Scholar

Taylor S.D. 2019. Estimating flowering transition dates from status-based phenological observations: a test of methods. *PeerJ* 7:e7720 <https://doi.org/10.7717/peerj.7720> [Code, Code Archive, Preprint]

Taylor, S.D., J.M. Meiners, K. Riemer, M.C. Orr, E.P. White. 2019. Comparison of large-scale citizen science data and long-term study data for phenology modeling. *Ecology* 100 (2): e02568. <https://doi.org/10.1002/ecy.2568>. [Preprint, Code]

Harris, D.J., S.D. Taylor, E.P. White. 2018. Forecasting biodiversity in breeding birds using best practices. *PeerJ*, 6:e4278 <https://doi.org/10.7717/peerj.4278> [Code, Code Archive, Preprint]

White, E.P., G.M. Yenni, S.D. Taylor, E.M. Christensen, E.K. Bledsoe, J.L. Simonis, S.K.M. Ernest. 2018. Developing an automated iterative near-term forecasting system for an ecological study. *Methods in Ecology and Evolution* <https://doi.org/10.1111/2041-210X.13104> [Website, Data, Code, Preprint]

Preprints

Taylor, SD and White, EP, 2019. Automated data-intensive forecasting of plant phenology throughout the United States. *bioRxiv*, p.634568. <https://doi.org/10.1101/634568>

Taylor, SD, & Marconi, S 2019. Rethinking global carbon storage potential of trees. A comment on Bastin et. al 2019. *bioRxiv*, 730325. <https://doi.org/10.1101/730325> [Data & Code Archive]

Taylor, SD. 2018. NEON NIST Data Science Evaluation Challenge: Methods and Results of Team Shawn. *PeerJ Preprints* 6: e26967v1. <https://doi.org/10.7287/peerj.preprints.26967>.

Software

Christensen, E.M., Yenni, G.M., Ye, H., Simonis, J.L., Bledsoe, E.K., Diaz, R., Taylor, S.D., White, E.P. and Ernest, S.M. 2019. portalr: An R Package for Summarizing and Using the Portal Project Data. Journal of Open Source Software 4 (33): 1098. <https://doi.org/10.21105/joss.01098>. [Repo]

Taylor, S.D. 2018. pyPhenology: A python framework for plant phenology modelling. The Journal of Open Source Software 3: 827. <https://doi.org/10.21105/joss.00827> [Repo, Docs]

McGlinn, D., H. Senyondo, S.D. Taylor, M. Pohlman, and E.P. White. 2015-present. rdataretriever: R Interface to the Data Retriever. <https://cran.r-project.org/web/packages/rdataretriever/index.html>

Posters & Presentations

Taylor, S.D. and White, E.P. 2018. Evaluation of a near term plant phenology forecast. Phenology Conference 2018. Melbourne, VIC, Australia. Best Student Poser

Taylor, S.D. and White, E.P. 2018. Evaluation of a near term plant phenology forecast. F1000Research, 7:1274 (poster) (<https://doi.org/10.7490/f1000research.1115951.1>)

Taylor, S.D. and White, E.P. 2016. Ecological Forecasting and Scale. Gordon Research Conference: Unifying Ecology Across Scales. University of New England. Biddeford, ME. (Poster)

Taylor, S.D. and Newingham, B.A. 2012. Influences of soil and spatial properties on Bromus tectorum distribution after fire. Annual Meeting of the Society of Range Management, Spokane, WA. (Presentation)

Invited Talks

Ecological Forecasting: Concepts, Recommendations, and Examples. LTER Metacommunities Working Group. Boulder, CO. Nov. 5, 2018. Organizer: Eric R. Sokol

Workshops Taught

7 Week Data carpentry workshop Jan. 1 - March 8 [Blog Post](#)
Data Carpentry, Utah State University, September 29-30, 2017
Software Carpentry, University of Florida, May 25-26, 2017
Data Carpentry, University of Florida, October 17-18, 2016
Software Carpentry, University of Florida, August 17-18, 2016

Work Experience

Lab Manager | Agricultural Research Station | Dr. Beth Newingham | Reno, NV
May - August 2015

- Lab purchasing & field prep.
- Surveys of post-fire restoration throughout the Great Basin.

Biological Science Technician | U.S. Forest Service | Idaho, Montana, Oregon, Utah
May - October 2012, April 2013 - November 2014

- Botanist surveying riparian vegetation throughout the Columbia Basin.
- Tech in 2012. Crew lead in 2013. Supervisor of 4 crews in 2014.

Systems Engineer | Bright Technologies | Reno, NV
2006-2009

- Design, testing, & installation of storage area networks (SANs) for film and television post production.

Certifications & Trainings

Near Term Ecological Forecasting Workshop Boston, Massachusetts - (7/2018)

Instructor Training [Data Carpentry](#) - (7/2016)

Honors & Grants

2017 NSF GRFP Honorable Mention

2016 Carl Storm Underrepresented Minority Fellowship (Travel Grant)

2012 Outstanding Ecology and Conservation Biology Nominated

2012 Henry & Ingeborg Legoll Scholarship

2011 Research Award for Undergraduates NSF Idaho EPSCoR

Skills

R, Python, SQL, Git, ArcGIS, QGIS, UNIX/Linux, parallel programming, high performance clusters.
Botany. Fluency in most plants of the Western U.S. Expert in the Inland Northwest.