

Shawn David Taylor

PhD Candidate - University of Florida

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Education

PhD in Ecology | 2015-Present | University of Florida | Gainesville, FL | White Lab

Research: Forecasting in ecology

- Making near term phenology forecasts. <http://phenology.naturecast.org>
- What tools can be borrowed from the meteorology and climate forecasting community?

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

- 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>
- Harris DJ, Taylor SD, White EP. 2018. Forecasting biodiversity in breeding birds using best practices. PeerJ, 6:e4278 <https://doi.org/10.7717/peerj.4278>
- White, E. P., Yenni, G. M., Taylor, S. D., Christensen, E. M., Bledsoe, E. K., Simonis, J. L., & Morgan Ernest, S. K. (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>

Preprints

- Taylor, Shawn D, Joan M Meiners, Kristina Riemer, Michael C Orr, and Ethan P White. 2018. "Comparison of Large-Scale Citizen Science Data and Long-Term Study Data for Phenology Modeling." BioRxiv, <https://doi.org/10.1101/335802>.
- Taylor, Shawn David. 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>.

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)

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.