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

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.
- White, Ethan P, Glenda M Yenni, Shawn D Taylor, Erica M Christensen, Ellen K Bledsoe, Juniper L Simonis, and S K Morgan Ernest. 2018. "Developing an Automated Iterative Near-Term Forecasting System for an Ecological Study." BioRxiv. https://doi.org/10.1101/268623.
- 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. F1000Research, 7:1274 (poster) (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.