Ethan P. White

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Professional Preparation

1998	BA Biology (*magna cum laude*), Colorado College
2005	PhD Biology (with distinction), University of New Mexico
2005-2007	NSF Postdoctoral Fellow in Biological Informatics, Univ. of Arizona & Univ. California Merced

Appointments

2015-	Associate Professor, Dept. of Wildlife Ecology & Conservation, University of Florida
2012-2015	Associate Professor, Dept. of Biology and Ecology Center, Utah State University
2012-	Senior Scientist, Sevilleta Long-Term Ecological Research Station
2007-2012	Assistant Professor, Dept. of Biology and Ecology Center, Utah State University
2005-2007	NSF Postdoctoral Fellow in Biological Informatics, Univ. of AZ & U.C. Merced

Five Most Relevant Publications and Products

Mislan, K.A.S., J.M. Heer, & E.P. White. 2016. Elevating the status of code in ecology. Trends in Ecology & Evolution 31:4-7. http://dx.doi.org/10.1016/j.tree.2015.11.006

Xiao, X., J.P. O'Dwyer, & E.P. White. 2016. Comparing process-based and constraint-based approaches for modeling macroecological patterns. Ecology 97:1228-1238. https://doi.org/10.1890/15-0962.1

Teal, T.K., K.A. Cranston, H. Lapp, E.P. White, G. Wilson, K. Ram, A. Pawlik. 2015. Data Carpentry: Workshops to Increase Data Literacy for Researchers. International Journal of Digital Curation 10:135-143. https://doi.org/10.2218/ijdc.v10i1.351

Xiao, X., D.J. McGlinn, & 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

Wilson, G., D.A. Aruliah, C.T. Brown, N.P. Chue Hong, M. Davis, R.T. Guy, S.H.D. Haddock, K. Huff, I. Mitchell, M. Plumbley, B. Waugh, E.P. White, & P. Wilson. 2014. Best practices for scientific computing. PLOS Biology. 12:e1001745. http://doi.org/10.1371/journal.pbio.1001745

Five Other Publications and Products

McGlinn, D.J., X. Xiao., J. Kitzes & E.P. White. 2015. Exploring spatially explicit predictions of the Maximum Entropy Theory of Ecology. Global Ecology & Biogeography 24:675-684. http://doi.org/10.1111/geb.12295

Xiao, X., K.J. Locey, & E.P. White. 2015. A process-independent explanation for the general form of Taylor's Law. American Naturalist 186:E51-E60 http://doi.org/10.1086/682050

Locey, K.J. & E.P. White. 2013. How species richness and total abundance constrain the distribution of abundance. Ecology Letters. 16:1177-1185. http://doi.org/10.1111/ele.12154

Coyle, J.R., A.H. Hurlbert, & E.P. White. 2013. Opposing mechanisms drive diversity patterns of core and occasional bird species. American Naturalist 181:E83-E90. http://doi.org/10.1086/669903

White, E.P., E. Baldridge, Z.T. Brym, K.J. Locey, D.J. McGlinn, S.R. Supp. 2013. Nine simple ways to make it easier to (re)use your data. Ideas in Ecology and Evolution 6:1-10. http://doi.org/10.4033/iee.2013.6b.6.f

Synergistic Activities

Data Carpentry: Founder, Steering Committee member, instructor, and creator and maintainer of course material for a non-profit that provides training in data and computational best practices to scientists (http://datacarpentry.org). Lead development of a semester long Data Carpentry for Biologists course.

Data Retriever: Leader of open source software project that downloads, cleans up, restructures, and installs ecological datasets so that scientists can focus on doing science (http://data-retriever.org). Altmetrics show that the Retriever is in the 87% percentile of overall impact for research software.

Ecological Data Wiki: Founder and developer of a website that allows ecologists to collaborate on discovery and use of ecological datasets (http://ecologicaldata.org). The site has been viewed over 140,000 times by users in over 170 countries.

Computational Biology Course & Website Development: Developed a suite of university courses on computational methods for biologists. Course material is online to facilitate broader learning (e.g., http://programmingforbiologists.org) and has been viewed nearly 300,000 times by users in over 180 countries.

Impactstory Board of Directors: Board of directors for Impactstory, a non-profit improving the practice of science by providing tools to quantify the broad impact of diverse research products including software, datasets, presentations and publications.

Collaborators and Other Affiliations

Collaborators (41 total): J.J. Adamson (U. North Carolina), D.A. Aruliah (U. Ontario), E. Baldridge (Utah State), C.T. Brown (U. California, Davis), J.H. Brown (U. New Mexico), Z.T. Brym (Utah State), K.A. Cranston (Duke), J. Coyle (U. North Carolina), M. Davis (Autodexk), P. Desjardins-Proulx (Université du Québec), S. Durham (Utah State), S.K.M. Ernest (U. Florida), M. Giffin (Utah State), R.T. Guy(U. Toronto), S.H.D. Haddock (Monterey Bay Aquarium), J.M. Heer (U. Washington), N.P. Chue Hong (Software Sustainability Institute), M. Hooten (Colorado State), A.H. Hurlbert (U. North Carolina), N. Isaac (Centre for Ecology and Hydrology, UK), J. Kitzes (UC Berkeley), D. Gravel (Université du Québec), K. Huff (UC Berkeley), H. Lapp (Duke), D.J. McGlinn (College of Charleston), I. Mitchell (U. British Columbia), B. Morris (Machine Zone), J.P. O'Dwyer (U. Illinois), K.A.S. Mislan (U. Washington), A. Pawlik (Software Sustainability Institute), T. Poisot (Université of Montréal), M. Plumbley (Queen Mary Univ.), K. Ram (UC Berkeley), R. Sibley (U. Reading in UK), S. Supp (U. Maine), T.K. Teal (Data Carpentry), K.M. Thibault (NEON), B. Waugh (University College London), G. Wilson (Software Carpentry Foundation), P. Wilson (U. Wisconsin), X. Xiao (U. Maine)

Advisors (3 total): J.H. Brown (U. New Mexico; PhD); J.L. Green (U. of Oregon; postdoc), B.J. Enquist (U. of Arizona; postdoc)

Advisees (6 PhD students, 3 postdocs): E. Baldridge (Utah State; PhD), D.J. Harris (U. Florida; postdoc), K.J. Locey (Indiana Univ; PhD), S. Marconi (U. Florida; PhD), D.J. McGlinn (College of Charleston; postdoc), K. Riemer (U. Florida; PhD), S. Taylor (U. Florida; PhD), K.M. Thibault (NEON; Postdoc), X. Xiao (U. Maine; PhD)