KARI NORMAN

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EDUCATION

Ph.D. Environmental, Science, Policy, and Management, 2016 - present
    University of California, Berkeley

B.S. Statistics, B.S. Conservation and Restoration Ecology with Honors**,** 2016
    Magna cum Laude, Minor in Biomathematics
    Utah State University

GRANTS

Department of Energy Computational Science Graduate Fellowship 2016
National Science Foundation Graduate Fellowship 2016 (deferred)
NSF NRT Fellowship, Data Science for the 21st Century 2016
Undergraduate Research and Creative Opportunities Grant Program,
    Utah State University, Fall 2014

AWARDS

Outstanding Statistics Undergraduate 2016
Undergraduate Research and Creative Opportunities Grant awardee 2015
Presidential Scholar 2012-2015
Quinney Scholar 2012-2015
Undergraduate Research Fellow 2012-2015
Jeb Stuart Scholarship 2014-2015
iUtah iFellowship 2013
Regents Scholar 2012-2014

RESEARCH AND PROFESSIONAL EXPERIENCE

Research Fellow, Oakridge National Lab, Summer 2018
Advisor: Dr. Alison Boyer

Undergraduate Research Fellow, Utah State University, 2014-2016
Advisor: Dr. Ethan White
- Created biodiversity maps of bird species in North America using PostgreSQL and Python programming language
- Code found at www.github.com/weecology/diversity-conservation

Undergraduate Research Fellow, Utah State University, 2014-2016
Advisor: Dr. Lise Aubry
- Completed surveys of Uinta Ground Squirrel populations
- Assessed demography using Capture-Mark-Recapture Robust Design model in RMark

DAAD Rise Research Intern, University of Göttingen, Summer 2014
Advisor: Dr. Benjamin Saefken
- Developed model to predict forest biomass from LiDAR data
- Utilized mixed effect and nonparametric models in the R environment

SKILLS

Computer skills: Python, R, SAS, PostgreSQL, Microsoft Access Database, Arc GIS, Excel, version control using Git and GitHub, shell programming

Field Techniques: Rocky Mountain and range plant identification, soil sampling and classification, water quality testing, Phragmites treatment and plot assessment, bird and small mammal surveys

LEADERSHIP AND SERVICE

Organizational Committee, Expanding Your Horizons Network, 2016 - present
Vice President, USU Chapter, Society for Range Management, 2015-2016
Wildland Dept. Rep., Natural Resources Student Council, 2013-2016
Founding Member, Ecology Club, 2014

PRESENTATIONS AT PROFESSIONAL MEETINGS

Oral Presentations
- K. Norman and L. Aubry, "Demographic Consequences of Climate Change in a Hibernator, the Uinta Ground Squirrel", Utah State Student Research Symposium, Utah State University, April 2015.
- K. Norman and S. Null, "Modeling Streamflow in the Wasatch Mountain Region with Climate Change", iUtah Cohort Session, Salt Lake City, August 2013.

Posters
- K. Norman and Alison Boyer, "Measuring biodiversity change: does function follow richness?", International Biogeography Society Conference, January 2019.
- K. Norman and E. White, "Biodiversity Prioritization: A comparison of data types", Gordon Research Conference: Unifying Ecology Across Scales, University of New England, July 2016.
- K. Norman and L. Aubry, "Demographic Consequences of Climate Change in the Uinta Ground Squirrel", Research on Capitol Hill, Salt Lake City, January 2016.
- K. Norman and E. White, "Biodiversity Prioritization: A comparison of data types", Ecological Society of America, Baltimore, August 2015.
- K. Norman and E. White, "Biodiversity Prioritization: A comparison of data types", National Conference of Undergraduate Research, Spokane, April 2015.
- K. Norman and E. White, "Biodiversity Prioritization: A comparison of data types", Utah Conference of Undergraduate Research, Southern Utah University, February 2015.
- K. Norman and S. Null, "Predicting Streamflow for Utah's Wasatch Mountains with Climate Change", iUtah Symposium, Salt Lake City, July 2013.

PUBLICATIONS

Academic
- Norman, K & Boettiger, C. taxadb: A High-Performance Local Taxonomic Database Interface (in review)
- Norman, K & White, EP. Implications of data type for biodiversity prioritization. (in review)

Blog
- Norman, K. "Taxadb: A High-Performance Local Taxonomic Database Interface." *ROpenSci*, 13 Feb. 2020, ropensci.org/blog.

SOFTWARE

- Taxadb R Package (https://github.com/ropensci/taxadb)