Tedward Erker

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Summary of Qualifications and Skills

Biometry M.S. and Forestry Ph.D. (expected spring 2019) with 5 years of research and data analysis experience and 2 years of high school teaching experience. Comfortable with a wide range of statistical methods including generalized linear models and tree-based methods. Driven to understand complex problems and distill key findings for nonexpert audiences via fully reproducible reports and compelling figures. Independently motivated. A positive, constructive team member and leader. Passionate about working in education.

Experience

2015-Present Research Assistant, UW-Madison.

- Map Urban Forests of Wisconsin
 - Tested 3 machine learning algorithms to classify nearly a terabyte of imagery
 - Processed imagery in parallel at UW's Center for High Throughput Computing
 - Geospatial analysis in R and image segmentation in python.
- Carbon Budget of Urban Forest
 - Assessed impact of tree canopy on residential building energy use and carbon emissions of ~30,000 Madison homes.
- Canopy Foliar Trait Mapping with Imaging Spectroscopy.
 - Applied partial least squares regression models to predict foliar canopy traits (e.g. nitrogen content) from imaging spectroscopy data
 - Explored anthropogenic and environmental drivers of trait variation across Madison, WI.

2013–2015 **Teaching Assistant**, *UW-Madison*.

- Statistical Methods for Bioscience II, Spring 2015
 - Led 2 weekly discussion groups, graded homework and exams for this graduate-level course largely covering multiple linear and logistic regression
- Forest Ecology, Fall 2013 and Fall 2014
- o Living With Wildlife, Spring 2014

2010–2012 Chemistry and Biology Teacher, Confluence Prep Academy, St. Louis.

- Educated over 120 students in six classes daily.
- As first year teacher, developed chemistry curriculum for new charter school integrating College Readiness Standards with Missouri Science Standards.

2010–2012 Corps Member, Teach For America, Chicago & St. Louis.

Education

2013-Present **Ph.D.**, University of Wisconsin-Madison, 3.929. Forestry, Department of Forest and Wildlife Ecology

2013–Present M.S., University of Wisconsin–Madison.

Biometry, Department of Statistics

2006–2008 B.A., Washington University in St. Louis, 3.83.

2009-2010 Environmental Studies–Ecology/Biology, Summa Cum Laude

Relevant graduate coursework

Tools for Reproducible Research

Statistical Methods-Spatial Data

o Intro Mathematical Statistics I & II

Teaching Statistics

- Advanced Data Analysis with R
- Multilevel Models
- O Statistical Meth. for Bioscience I & II
- Statistical Consulting

Skills

Writing
Presenting

1 scientific paper in review; over \$150,00 in proposals

2 scientific posters, 1 academic presentation, 4 years of teaching

Data Display

Daily use of grammar of graphics in R's ggplot2

Statistical
Analysis

Computing

R, python, webscraping, emacs org mode, unix command line, version control (git)

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June 25, 2018

Education Analytics Recruitment Team

Education Analytics, Inc. 131 West Wilson Street, Suite 200 Madison, WI 53703

To Research Analyst Hiring Manager,

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Albert Einstein discovered that $e=mc^2$ in 1905.

My best,

Tedward Erker

Attached: resume