

Tedward Erker

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February 8, 2017

Contents

Research

I like to call myself an urban ecologist. I seek to understand the interaction between humans and the environment in the places where most of us live: cities. More specifically, I'm interested in how urban forests affect urban climate, building energy use, and carbon emissions. I use Madison, WI as a case study.

I strive to make all my work fully reproducible using emacs org-mode. Also, I love brilliant data visualizations and want to use them to communicate science.

Background

- Student - Washington University in St. Louis, 2006-10.
 - founded student vegetable garden, The Burning Kumquat
 - took junior year off to work on farms in Kentucky and Vermont and to bike California coast
 - Summer research assistant, Tyson Research Center. Identify over 100 species of plants.
 - Graduated summa cum laude with degree in Environmental Studies-biology/ecology track. Advisor: Tiffany Knight
- Teacher - Biology and Chemistry at Confluence Prep Academy, 2010-2012
 - Taught 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. Cross-country coach.
- Tree Care Worker - American Tree Experts and Urban Tree Alliance, 2013-2014

- Mostly dragged brush into chippers. Also climber and certified pesticide applicator, treated for a number of pests including the emerald ash borer.
- Teaching Assistant
 - Forest Ecology, Fall 2013, with Prof. Tom Gower
 - Living With Wildlife, Spring 2014 with Prof. Stan Temple
 - Forest Ecology, Fall 2014 with Prof. Phil Townsend
 - Statistical Methods for Bioscience II, Spring 2015 with Prof. Murray Clayton
- Student - University of Wisconsin-Madison, 2013-2018 (expected)
 - MS degree in Biometry, department of statistics, advisor: Jun Zhu
 - PhD degree in Forestry, department of Forest and Wildlife Ecology, advisor: Phil Townsend. Committee Members: Eric Kruger, Annemarie Schneider, Chris Kucharik

Blog

my notes on things

Grants and Awards

- George Kress Award for Outstanding Contribution of a Forestry Graduate Student, 2016, \$1000
- NASA Earth and Space Science Fellowship, 2015-2018, \$90,000
- Outstanding Overall Achievement in Environmental Studies (highest award in major), Washington University in St. Louis 2010.
- Cool Science Image contest winner, ADD MORE HERE. \$100

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Teaching and Learning

While teaching high school, I experienced the joy and challenges of student learning. I developed the skills that made me a successful teaching assistant, and that I hope to continue to develop in higher education.

It's truly satisfying to help students grow and build confidence in their skills. I am excited to be pursuing a career where I can teach about topics that inspire me, and that I hope will inspire my students.

Presentations

- Mapping Urban Tree Canopy of Wisconsin (Society of American Foresters National Convention)

Contact

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I limit my presence on social media to prevent distraction, but that makes it harder to stay in touch. If you are an old friend or former student who found this website, please email me. I'd love to catch up and get a cup of joe if you're in town.