

Geneviève Kathleen Smith

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EDUCATION

Ph.D. in Ecology, Evolution & Behavior, The University of Texas at Austin, Austin, TX, 2013

M.Sc. in Biology, McGill University, Montréal, QC, 2007

B.Sc. in Biology & History, McGill University, Montréal, QC, 2001

SKILLS

Languages: R, Matlab, SAS; some experience: Python, Unix shell, MySQL, Javascript

Tools: git, D3, AWS, Flask, Twitter Bootstrap, some experience: Pandas, NumPy, Scikit-Learn

Communication: Experienced public speaker, statistical consultant & Software Carpentry instructor

EXPERIENCE

Data Science Fellow, Insight New York, NY 2014-present

- Built *NeutralOpinion.com*, a web app that helps policy makers understand public opinion on net neutrality.
- Stored and retrieved hundreds of thousands of public comments using Python and MySQL.
- Evaluated citizen engagement differences across states using text mining tools & sentiment analysis.
- Designed and built an interactive front-end using Flask, Bootstrap, D3, and AWS.

Graduate Fellow, Department of Statistics and Data Science, UT Austin, Austin, TX 2012-2013

- Consulted faculty & graduate students on planning and implementing statistical analyses.
- Developed new materials for a total redesign of UT's biostatistics course, including RStudio-based labs.
- Built a revised chronology for the writing of Shakespeare's plays based on changes in his punctuation, using a bootstrapped Constrained Correspondence Analysis (R and Matlab).

Graduate Student, Department of Integrative Biology, UT Austin, Austin, TX 2007-2013

- Conducted ecological competition experiments to demonstrate that closely-related species can coexist without niche differences, contrary to current theoretical consensus (R: nlme, multcomp).
- Mined publicly available data from a large-scale deforestation study to show how community trait composition recovers more slowly than total biomass and phylogenetic structure (R: phylocom, vegan).
- Analyzed wing shape differences in an invasive damselfly to demonstrate that females who mimic male behaviors and pigmentation still possess 'female' wing shapes (R, SAS, MorphoJ and ImageJ).

Graduate Student, Department of Biology, McGill University, Montréal, QC 2004-2007

- Monitored mussel populations & larval settlement along >100 km of coastline.
- Used spatial statistical models in R to determine the scale of dispersal and population connectivity.
- Analyzed >15 million years of forest dynamics across North America using public fossil pollen records.

Science & Technology Intern, Research Branch, Canadian Library of Parliament, Ottawa, ON 2001-2002

- Briefed Members of Parliament on diverse science policy topics.
- Provided legislative summaries & research support for MPs & committees.

WORKSHOPS & COURSES

Machine Learning, 2014, Coursera/Stanford University

Presenting Data and Information by Edward Tufte, 2014, Austin, TX

Programming for Data Analysis, 2013, Coursera/Johns Hopkins University

Big Data in Biology, 2013, Okinawa Institute for Science & Technology, Okinawa, Japan

AWARDS

Doctoral Research Scholarship, Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT)

Graduate Dean's Prestigious Fellowship Supplement, The University of Texas at Austin

Visiting Graduate Fellowship, W. K. Kellogg Biological Station, Michigan State University