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

Tools: git, AWS, Flask, Bootstrap, D3
Languages: R, Matlab, SAS, Python, Unix shell; some experience: MySQL, Javascript
Communication: Experienced public speaker, statistical consultant & Software Carpentry instructor

EXPERIENCE

Data Science Fellow, Insight New York, NY 2014-present
- Built *Neutral_Opinion.info*, an app to help policy makers understand public opinion on net neutrality
- Stored and retrieved >1 million public comments using streamtools, Python, and MySQL
- Applied text mining tools & sentiment analysis to determine the major themes underlying comments

Graduate Fellow, Department of Statistics and Data Science, UT Austin, Austin, TX 2012-2013
- Consulted faculty & graduate students on selecting and using statistical tools
- Built a revised chronology for the writing of Shakespeare's plays, using a bootstrapped Constrained Correspondence Analysis of trends in his punctuation style
- Developed new materials for a complete redesign of UT's biostatistics course, including R-based labs

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
- 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
- Investigated wing shape differences in an invasive damselfly species and demonstrated that females who mimic male behaviors and pigmentation still possess 'female' wing shapes

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 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