

CONTACT INFORMATION	<p>Evans Hall 331, Department of Statistics  Berkeley, CA 94720-3860  <a href="http://github.com/sastoudt">http://github.com/sastoudt</a>  <a href="http://sastoudt.github.io/">http://sastoudt.github.io/</a></p>	<p>724-464-3179  <a href="mailto:sstoudt@berkeley.edu">sstoudt@berkeley.edu</a>  @sastoudt</p>
RESEARCH INTERESTS	applied and computational statistics in ecology and environmental science	
EDUCATION	<p><b>University of California, Berkeley</b>, Berkeley, CA</p> <p>Ph.D., Statistics, Fall 2015 - expected Spring 2020  Advisors: Will Fithian (Department of Statistics) and Perry de Valpine (Department of Environmental Science, Policy and Management)  <i>Berkeley Institute for Data Science Fellow</i>  <i>National Physical Science Consortium Fellow</i>  <i>Data Sciences for the 21st Century: Environment and Society Graduate Trainee</i></p> <p><b>Smith College</b>, Northampton, MA</p> <p>B.A., Mathematics and Statistics, 2015  Magna Cum Laude with Highest Honors 3.95/4.0  Major GPA: 4.0/4.0</p>	
GRADUATE RESEARCH	<p><b>Dissertation Research</b></p> <ul style="list-style-type: none"> <li>– Clarifying identifiability controversies in species distribution/abundance models</li> <li>– Investigating robustness to model misspecification in these models</li> <li>– Recommending data collection protocols that increase robustness</li> <li>– Accounting for covariances in joint species distribution and abundance models</li> </ul> <p><b>Statistics Communication</b></p> <ul style="list-style-type: none"> <li>– Co-developing and co-teaching Communicating with Data: The Art of Writing for Data Science (with Deborah Nolan)</li> <li>– Co-developing and co-teaching Blogging for Data Science (with Deborah Nolan)</li> <li>– Writing a book on statistical writing (in progress with Deborah Nolan)</li> </ul> <p><b>Collaborations in Ecology</b></p> <ul style="list-style-type: none"> <li>– Fitting models with phylogenetic and measurement errors (with Soorim Song)</li> <li>– Understanding variability in water quality with San Francisco Estuary Institute (SFEI) (with David Senn, Erica Spotswood, Perry de Valpine, Marcus Beck)</li> </ul>	
JOB EXPERIENCE	<p><b>Data Science Intern</b></p> <ul style="list-style-type: none"> <li>• <b>Farmers Business Network</b> <ul style="list-style-type: none"> <li>– Supervisor: Matt Meisner, Ph.D</li> <li>– Predicting crop yield</li> </ul> </li> </ul> <p><b>Summer (Undergraduate/Graduate) Research Fellow</b></p> <ul style="list-style-type: none"> <li>• Statistical Engineering Division, National Institute of Standards and Technology <ul style="list-style-type: none"> <li>– Supervisor: Antonio Possolo, Ph.D</li> <li>– Measuring optical apertures for solar irradiance monitoring</li> <li>– Homogenizing of surface temperature records</li> <li>– Errors-in-variables modeling for force calibrations</li> <li>– Interpolating atmospheric greenhouse gas fluxes</li> <li>– Evaluating the accuracy, consistency, and stability of measurements of the Planck constant</li> </ul> </li> </ul>	<p>Summer 2018</p> <p>Summers 2013-2017</p>

AWARDS	<ul style="list-style-type: none"> <li>• Berkeley Institute for Data Science Fellow 2018-2020</li> <li>• Outstanding Graduate Student Instructor award 2018</li> <li>• National Physical Science Consortium Fellow 2015-2018</li> <li>• Data Sciences for the 21st Century: Environment and Society Graduate Training Program 2015-2017</li> <li>• Gertrude M. Cox Scholarship 2015</li> <li>• Best Poster Award: Geocomputation Conference 2015</li> <li>• Goldwater Scholar 2014</li> <li>• First Place: Statistics in Sports Undergraduate Research Competition at Joint Statistical Meetings 2014</li> <li>• Best in Show: Five College Data Fest 2014, 2015</li> </ul>
PROGRAMMING LANGUAGES	<ul style="list-style-type: none"> <li>• Proficient: R (and Shiny), LaTeX</li> <li>• Experience With: Python, SQL, HTML, CSS, D3, JavaScript, bash, Matlab, Java, GIS, AMPL, Mathematica, NIMBLE, WinBUGS</li> </ul>
PUBLICATIONS	<ul style="list-style-type: none"> <li>• Possolo, A., Schlamminger, S., <b>Stoudt, S.</b>, Pratt, J. R., and Williams, C. J. "Evaluation of the accuracy, consistency, and stability of measurements of the Planck constant used in the redefinition of the International System of Units" <i>Metrologia</i> Volume 55, Number 1, December 2017</li> <li>• <b>Stoudt, S.</b> "Geostatistical Models for the Spatial Distribution of Uranium in the Continental United States" <i>Advances in Geocomputation: Geocomputation 2015 - The 13th International Conference</i> Springer Advances in Geographic Information Science, 2017, pp. 325-334.</li> <li>• <b>Stoudt, S.</b>, Badian-Pessot, P., Mahop, B. N., Earley, E., Menter, J., Flores, Y., Williams, D., Zhang, W., Maharajan, L., Bao, Y., Rosenbauer, L., Nguyen, V., Mendiratta, V., Tania, N. "Modeling Internet Traffic Generations Based on Individual Users and Activities for Telecommunication Applications" <i>American Journal of Undergraduate Research</i> Volume 13, Issue 3, August 2016, pp. 53-65.</li> <li>• Bartel, T., Possolo, A., and <b>Stoudt, S.</b> "Force Calibrations using Errors-in-Variables Regression and Monte Carlo Uncertainty Evaluations" <i>Metrologia</i> Volume 53, Number 3, June 2016, pp. 965-980(16).</li> <li>• <b>Stoudt, S.</b>, Cao, Y., Udwin, D., and Horton, N. J. "What Percent of the Continental US is Within One Mile of a Road?" <i>Statistics Education Web</i>, 2014.</li> <li>• <b>Stoudt, S.</b>, Santana, L., and Baumer, B. "In Pursuit of Perfection: An Ensemble Method for Predicting March Madness Match-Up Probabilities" <i>JSM 2014 Proceedings</i></li> </ul>
TEACHING EXPERIENCE	<p>Graduate Student Instructor (GSI), Statistics, UC Berkeley Fall 2017</p> <ul style="list-style-type: none"> <li>• Assist with course development and instruction of new writing in statistics course and blogging for data science course</li> <li>• Outstanding GSI award</li> </ul>
RELEVANT ACTIVITIES	<ul style="list-style-type: none"> <li>• Co-organizer of and writer for Statsbites 2017-ongoing</li> <li>• Graduate Workshop on Environmental Data Analytics 2016</li> <li>• SAMSI Summer Program: The International Temperature Initiative 2014</li> </ul>
DEPARTMENTAL SERVICE	<ul style="list-style-type: none"> <li>• Active member of BIDS Diversity and Inclusion Working Group, Fall 2018-current</li> <li>• Co-president of the Statistics Graduate Student Association, Fall 2017-Spring 2018</li> <li>• Co-organizer of UC Berkeley DataFest, Springs 2016-2018</li> <li>• Co-organizer of Statistics Graduate Student Association Gender Issues Roundtable Discussion, Fall 2016</li> </ul>