

Sara A. Stoudt, PhD

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PROGRAMMING LANGUAGES	<ul style="list-style-type: none"> <li>• Advanced: R (and Shiny)</li> <li>• Experience With: Python, SQL, HTML, CSS, D3, JavaScript, bash, Matlab, Java, GIS, AMPL, Mathematica, NIMBLE, WinBUGS, LaTeX</li> </ul>
TEACHING EXPERIENCE	<p>Graduate Student Instructor (GSI), Statistics, UC Berkeley</p> <ul style="list-style-type: none"> <li>• Co-developed and co-instructed new writing in statistics course Fall 2017</li> <li>• Co-developed and co-instructed new blogging for data science independent study Spring 2018</li> <li>• Outstanding GSI award</li> </ul> <p>Miscellaneous Primary Instructor</p> <ul style="list-style-type: none"> <li>• <a href="#">Introduction to Statistics in R Workshop</a> (NICAR, 2020)</li> <li>• <a href="#">Data Storytelling Workshop</a> (Correlation One's Women's Summit, 2020)</li> <li>• <a href="#">Unleashing the power of biodiversity data with data science</a> (Lewis and Clark workshop 2019, co-instructed with Ciera Martinez)</li> </ul> <p>Miscellaneous Teaching Assistant</p> <ul style="list-style-type: none"> <li>• Linear Regression Workshop (NICAR, 2020)</li> <li>• Peer Data Review coach (Open News, 2019)</li> <li>• R bootcamp (D-Lab/UC Berkeley Statistics Department, 2018)</li> <li>• Software Carpentry (Data Science for the 21st Century Training Program, 2018)</li> </ul>
NON-ACADEMIC WRITING	<ul style="list-style-type: none"> <li>• <a href="#">Berkeley Institute for Data Science Best Practices Series</a></li> <li>• <a href="#">Berkeley Science Review</a></li> <li>• <a href="#">Ecology for the Masses Stats Corner</a></li> <li>• <a href="#">Logic Magazine</a></li> <li>• <a href="#">Tidy Tuesday participation</a></li> <li>• <a href="#">RStats blog</a></li> <li>• <a href="#">What does probability mean anyway?</a></li> <li>• <a href="#">Fixed, mixed, and random effects</a></li> <li>• <a href="#">Just how does Kidz Bop censor songs?</a></li> <li>• <a href="#">You Know Karen</a></li> </ul>
AWARDS	<ul style="list-style-type: none"> <li>• RStudio Diversity Scholar 2020</li> <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>• 2nd Place USPROC Undergraduate Research Project Competition 2015</li> <li>• Best Poster Award: Geocomputation Conference 2015</li> <li>• Elected to Mu Sigma Rho 2015</li> <li>• Ann Kirsten Pokora Prize for excellence in mathematics 2015</li> <li>• Goldwater Scholar 2014</li> <li>• Elected to Phi Beta Kappa Society 2014</li> <li>• First Place: Statistics in Sports Undergraduate Research Competition at Joint Statistical Meetings 2014</li> <li>• Honorable Mention Undergraduate CLASS Project Competition 2014</li> <li>• Best in Show: Five College Data Fest 2014, 2015</li> <li>• Elected to Sigma Xi 2013</li> <li>• John Everett Brady Prize for best performance in the beginning Latin course 2013</li> <li>• Suzan Rose Benedict Prize for excellence in mathematics 2013</li> <li>• Smith College Dean's List 2011-15</li> <li>• Smith College First Group Scholar - top 10 percent of class 2011-13</li> <li>• Smith College STRIDE (Student Research in Departments) Scholarship 2011-15</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,</li> </ul>

	December 2017	
	<ul style="list-style-type: none"> <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>	
IN PROGRESS	<ul style="list-style-type: none"> <li>• <b>Stoudt, S.</b>, de Valpine, P., and Fithian, W. “Clarifying the identifiability controversy in species distribution modeling”</li> <li>• <b>Stoudt, S.</b>, de Valpine, P., and Fithian, W. “Robustness of latent factor models for estimating community ecology metrics under model misspecification”</li> <li>• <b>Stoudt, S.*</b>, Vasquez, V.*, Martinez, C*. “Design principles in data analysis workflows and analogies to software development” (*equal authorship)</li> <li>• Hong, J., <b>Stoudt, S.</b>, and de Valpine, P. “Fast maximum likelihood estimation for general hierarchical models”</li> <li>• Goldstein, B.*, <b>Stoudt, S.*</b>, de Valpine, P., and Fithian, W. “What can gold standard birders tell us about opportunistic citizen scientists?” (*equal authorship)</li> </ul>	
SERVICE	<ul style="list-style-type: none"> <li>• Co-organizer of Code and Coffee East Bay for the Bay Area Women in Machine Learning &amp; Data Science Meetup group, Spring 2019-current</li> <li>• Active member of BIDS Diversity and Inclusion Working Group, Fall 2018-current</li> <li>• Co-president of the Statistics Graduate Student Association (SGSA), Fall 2017-Spring 2018</li> <li>• Co-organizer of UC Berkeley DataFest, Springs 2016-2018</li> <li>• Co-organizer of SGSA Gender Issues Roundtable Discussion, Fall 2016</li> <li>• Co-organizer of Statistics Graduate Student Association Diversity Discussion, Spring 2017</li> <li>• Statistics Graduate Student Association Diversity Affairs Member, Fall 2016- Spring 2017</li> <li>• Graduate Student Volunteer: “Roadless America” Interactive Activity for Cal Day 2016 and 2017</li> </ul>	
RELEVANT ACTIVITIES	<ul style="list-style-type: none"> <li>• Attended JavaScript for Shiny Users at rstudio::conf</li> <li>• Author of base R to dplyr vignette</li> <li>• RLadies San Francisco Lightning Talk</li> <li>• Author of base R to stringr vignette</li> <li>• Developer of interactive visualization for the Wealth Tax Simulator</li> <li>• Trans Day of Remembrance Hackathon Participation</li> <li>• Graduate Workshop on Environmental Data Analytics</li> <li>• San Francisco Estuary Institute consulting</li> <li>• Attended the Google Geospatial Technology Workshop</li> <li>• SAMSI Summer Program: The International Temperature Initiative</li> </ul>	2020 2020 2019 2019 2019 2018, 2019 2016 2016 2015 2014