

# Nehemias Ulloa

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CONTACT INFORMATION	2329 Bristol Dr. Apt 201 Ames, Iowa USA 50010	<i>Phone:</i> 661.428.5419 <i>E-mail:</i> <a href="mailto:nulloa1@iastate.edu">nulloa1@iastate.edu</a> <i>Webpage:</i> <a href="http://nulloa.github.io">nulloa.github.io</a>
POSITION	Assistant Professor	
EDUCATION	<b>PhD in Statistics</b> Iowa State University <i>Thesis:</i> Bayesian Hierarchical Modeling and Analysis for Disease Outbreaks <i>Advisor:</i> Dr. Jarad Niemi	<b><i>Expected: June 2019</i></b>
	<b>MS in Statistics</b> Iowa State University <i>Creative Component:</i> Application of Polynomial Regression to Dyadic Data <i>Advisor:</i> Dr. Fred Lorenz	<b>May 2017</b>
	<b>BS in Mathematics</b> California State University, Bakersfield	<b>May 2013</b>
WORK EXPERIENCE	<b>After, Inc.</b> Norwalk, Connecticut <b>R Shiny Developer Intern</b> <ul style="list-style-type: none"><li>• Worked with statisticians within the company to develop client reports with R Shiny</li><li>• Helped create and improve reporting templates to standardize reports across clients</li><li>• Researched new Shiny features which lead to new Shiny apps and documents for others to use</li></ul> <b>Iowa State University</b> Ames, IA <b>Teaching Assistant</b> <ul style="list-style-type: none"><li>• Ran and assisted with labs in both undergraduate and graduate courses</li><li>• Held office hours to help students with a one-on-one emphasis</li><li>• Graded homework and lab assignments</li><li>• Courses: STAT 101 (Principles of Statistics), STAT 326 (Introduction to Business Statistics II), STAT 330 (Probability and Statistics for Computer Science), STAT 401 (Statistical Methods for Research Workers), STAT 544 (Graduate-level Bayesian Statistics)</li></ul> <b>Research Assistant</b> <ul style="list-style-type: none"><li>• Iowa State Monarch Project</li><li>• Organize, create and maintain data sets on online repository</li><li>• Create visualizations and summary statistics for reports</li></ul> <b>Instructor</b> <ul style="list-style-type: none"><li>• Lectured a section of introductory statistics one semester (class size <math>\sim 100</math>) and taught online one semester</li><li>• Courses: STAT 101 and STAT 305 (Engineering Statistics)</li></ul> <b>California State University, Bakersfield</b> Bakersfield, CA <b>Math Department Tutoring Center</b> <ul style="list-style-type: none"><li>• Tutored students from algebra through the calculus series</li></ul> <b>Instructor</b> <ul style="list-style-type: none"><li>• Ran hybrid course using an interactive online learning environment to help develop basic math skills</li><li>• Courses: MATH 75 (Developmental Mathematics I ) &amp; MATH 85 (Developmental Mathematics II)</li></ul>	<b>May 2018 - Dec 2018</b>  <b>Aug 2013 - May 2018; Jan 2019 - Present</b>  <b>Jan 2011 - July 2013</b>

**Course List**

Iowa State University

Fall 2013	STAT 101	Principles of Statistics	TA
Spring 2014	STAT 101	Principles of Statistics	TA
Fall 2014	STAT 401	Statistical Methods for Research Workers	TA
Spring 2015	STAT 401	Statistical Methods for Research Workers	TA
Summer 2015	STAT 330	Probability for Computer Science	TA
Fall 2015	STAT 101	Principles of Statistics	Instructor
Spring 2016	STAT 544	Bayesian Statistics	TA
Summer 2016	STAT 401	Statistical Methods for Research Workers	TA
Fall 2016	STAT 305	Engineering Statistics	Instructor
Spring 2017	STAT 544	Bayesian Statistics	TA
Summer 2017	STAT 401	Statistical Methods for Research Workers	TA
Fall 2017	STAT 101	Principles of Statistics	TA
Spring 2018	STAT 544	Bayesian Statistics	TA
Spring 2019	STAT 326	Introduction to Business Statistics II	TA
Spring 2019		ISU Monarch Project	RA

California State University, Bakersfield

Winter 2011	MATH 75	Developmental Mathematics I	TA
	MATH 85	Developmental Mathematics II	
Spring 2011	MATH 75	Developmental Mathematics I	TA
	MATH 85	Developmental Mathematics II	
		Math Dept. Tutoring Center	Tutor
Fall 2011	MATH 75	Developmental Mathematics I	TA
	MATH 85	Developmental Mathematics II	
		Math Dept. Tutoring Center	Tutor
Winter 2012	MATH 75	Developmental Mathematics I	TA
	MATH 85	Developmental Mathematics II	
		Math Dept. Tutoring Center	Tutor
Fall 2012		Math Dept. Tutoring Center	RA
Winter 2013		Math Dept. Tutoring Center	RA
Spring 2013		Math Dept. Tutoring Center	RA
Summer 2013	MATH 75	Developmental Mathematics I	Instructor
	MATH 85	Developmental Mathematics II	Instructor

RESEARCH EXPERIENCE	<b>CREST(NSF)</b> <span style="float: right;"><b>June 2012 - June 2013</b></span> California State University, Bakersfield <ul style="list-style-type: none"> <li>Investigated methods of fitting a penalized broken cubic spline and compared using AIC, AICcorr, BIC, CV, and GCV criterias to the RSE</li> </ul>
	<b>Interdisciplinary Program in High Performance Computing,</b> <span style="float: right;"><b>Summer 2012</b></span> University of Maryland, Baltimore County <ul style="list-style-type: none"> <li>Completed Math 447: Introduction to Parallel Computing where I learned parallel computing using C with MPI, R with Snow, and Matlab</li> <li>Collaborated with the Department of Natural Resources of Maryland to identify trouble areas of the Chesapeake Bay using different statistical methods and ranking systems.</li> </ul>
PUBLICATIONS	Eduardo L. Montoya, Nehemias Ulloa, and Victoria Miller. (2014) A Simulation Study Comparing Knot Selection Methods With Equally Spaced Knots in a Penalized Regression Spline. <i>International Journal of Statistics and Probability</i> , v.3, n.3, p. p96. ( <a href="#">URL</a> )  Rosemary K. Le, Christopher V. Rackauckas, Anne S. Ross, and Nehemias Ulloa. (2013) Assessment of Statistical Methods for Water Quality Monitoring in Marylands Tidal Waterways. <i>SIAM Undergraduate Research Online (SIURO)</i> , vol. 6. ( <a href="#">URL</a> )
AWARDS	<b>Alliance for Graduate Education and the Professoriate Fellowship</b> <span style="float: right;"><b>Aug 2013 - June 2018</b></span> Iowa State University <ul style="list-style-type: none"> <li>Joint-fellowship between Iowa Universities dedicated to increasing the number of underrepresented minorities obtaining graduate degrees in STEM.</li> </ul>
PRESENTATIONS	<b>JSM: Joint Statistical Meeting</b> <span style="float: right;"><b>Aug 2017</b></span> Baltimore, MD <ul style="list-style-type: none"> <li>Contributed Poster Presentations: Social Statistics Section - An Application of Polynomial Regression to Dyadic Data</li> </ul> <b>JSM: Joint Statistical Meeting</b> <span style="float: right;"><b>Aug 2018</b></span> Vancouver, BC, CA <ul style="list-style-type: none"> <li>Bayesian Generalized Linear Models for Medicine Contributed Talk - Bayesian Hierarchical Models and Influenza Modeling</li> </ul>
ACTIVITIES	<b>STAT-ers: Statistics graduate student organization</b> <span style="float: right;"><b>Aug 2013 - Present</b></span> Iowa State University <ul style="list-style-type: none"> <li>Vice President <span style="float: right;"><b>2015 - 2016</b></span></li> <li>President <span style="float: right;"><b>2016 - 2017</b></span></li> </ul> <b>StatCom: Statistics in the Community</b> <span style="float: right;"><b>Aug 2015 - Present</b></span> Iowa State University <ul style="list-style-type: none"> <li>Ran statistics station at Meeker Elementary's Science Night</li> <li>Helped a non-profit with data clean-up and summary statistics</li> </ul>
COMPUTER SKILLS	<b>Programming:</b> R, SAS, C++, SPSS, MPLUS, Git, SQL, L <sup>A</sup> T <sub>E</sub> X <b>Statistical Computing:</b> Stan, JAGS, Shiny, JMP
PROFESSIONAL MEMBERSHIPS	American Statistical Association
LANGUAGES	English, Spanish
PERSONAL INTERESTS	For fun outside of statistics, I enjoy riding my bike around town and playing in the soccer and ultimate frisbee summer leagues. I also enjoy playing guitar.