Javier E. Flores

PhD Candidate

Department of Biostatistics, University of Iowa College of Public Health

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Education

Ph.D, Biostatistics — *2017 - 2021*

University of Iowa, Iowa City, IA — *GPA: 3.98/4.00*

M.Sc, Biostatistics — *2015 - 2017*

University of Iowa, Iowa City, IA — *GPA: 3.96/4.00*

B.Sc, Chemistry — *2010 - 2014*

University of Texas at Brownsville, Brownsville, TX — *GPA: 3.96/4.00*

Experience

Research

Graduate Research Assistant — *August 2015 - Present*

University of Iowa, Department of Biostatistics

- Collaborated as the lead analyst with multidisciplinary teams to tackle problems in injury epidemiology.
- Worked extensively with large survey data in several longitudinal and cross-sectional analyses.
- Awarded the William R. Clarke Graduate Research Assitant Award for demonstrating excellence in service as a collaborating member of research team(s).

Undergraduate Research Assistant — *May 2014 - July 2014*

University of Iowa, Summer Institute in Biostatistics

- Identified risk factors for select high risk behaviors among Iowa youth using data from the Iowa Youth Survey.
- Modeled relationships between identified risk factors and behaviors using logistic regression.
- Created a model-based risk-assessment tool to characterize high-risk youth profiles.

Teaching

Visiting Instructor — *January 2019 - May 2019*

Grinnell College

- Developed course materials for and taught Applied Statistics (STA209), an introductory course in statistics.
- Instilled statistical intuition and understanding through real-world examples and the analysis of real datasets.
- Mentored two winning submissions (1st and 3rd place) to the Spring 2019 Introductory Statistics Division of the Undergraduate Class Project Competition sponsored by the American Statistical Association and the Consortium for the Advancement of Undergraduate Statistics Education.

Lab Instructor — *May 2018 - July 2018*

University of Iowa, Summer Institute in Biostatistics

- Co-taught and co-created materials for an introductory statistics lab aimed to develop a practical understanding of foundational statistical concepts and statistical computational skills.
- Guided student progress in the completion of capstone projects for the summer institute.
- Encouraged group discussion and collaboration in solving challenging practice and project problems.

Mentoring

Project Advisor — *2016, 2019*

University of Iowa, Summer Institute in Biostatistics — *(Summers Only)*

- Miguel De Jesus, Marisa Flores, Carson Green (2019). "Terraforming the Teenage Wasteland: Youth Violence, Mental Health, and State Policy", University of Puerto Rico Mayagüez, Montana State University, University of Hawaii at Hilo. Capstone project for the Iowa Summer Institute in Biostatistics.
- Justin DeMonte, Elise Northrop (2016). "An analysis of Risk Factors for Teen Dating Violence", Clarke University, The Evergreen State College. Capstone project for the Iowa Summer Institute in Biostatistics.

Visiting Instructor

January 2019 - May 2019

Grinnell College

- Senay Gokcebel, Maya Gardner, Lukas Resch (2019). "Representation of Race and Sex of Characters in Children's Books", Grinnell College. Winning submission (1st place) of the Spring 2019 Introductory Statistics Division Undergraduate Class Project Competition.
- Yolana Martin, Peony Teo, Eva Hill (2019). "College Student Beliefs on the Justification of Lying", Grinnell College. Winning submission (3rd place) of the Spring 2019 Introductory Statistics Division Undergraduate Class Project Competition.
- Saketan Anand (2019). "Identifying Race-Based Trends for Victims of Crimes in L.A.", Grinnell College. Project submitted to the Spring 2019 Introductory Statistics Division Undergraduate Class Project Competition.
- Sherry Huang, Nicole Kreider, Sabrena Scheffel (2019). "The Effect of Barriers on SNAP Participation", Grinnell College. Project submitted to the Spring 2019 Introductory Statistics Division Undergraduate Class Project Competition.

Other

Director of Student Relations

2016 - 2018

University of Iowa, Summer Institute in Biostatistics

(Summers Only)

- Engineered experiences conducive to the development of strong collaborative bonds among participating undergraduate students from different parts of the country.
- Mentored student participants in various capacities, e.g. academically, professionally, and personally.
- Contributed towards the recruitment of several students from underrespresented backgrounds into Iowa's graduate program.

Mathematics Tutor

August 2011 - May 2015

University of Texas at Brownsville

- Created individualized lessons and exercises for students based on provided course notes and assignments.
- Pioneered the use of online tutoring as an additional resource for student learning.
- Assessed and improved tutoring strategies based on feedback received through consistent dialogue with students.

General Biology Tutor

August 2011 - December 2011

University of Texas at Brownsville

- Tailored group review sessions to address challenges in student understanding.
- Shared study strategies to maximize student success.
- Prepared and gave lectures following regularly held class to help solidify student comprehension.

Registered Pharmacy Technician

August 2010 - July 2011

Autrey Pharmacy

- Learned about community pharmacy management and insurance procedures.
- Improved personal communication skills through regular interaction with patients.
- Developed a keen attention to detail through filling a high volume of prescriptions on a daily basis.

Refereed Publications

1. Flores, JE and JE Cavanaugh (2014). Partial Likelihood. *Wiley StatsRef: Statistics Reference Online*, 1–5.
2. Neath, AA, JE Flores, and JE Cavanaugh (2018). Bayesian multiple comparisons and model selection. *Wiley Interdisciplinary Reviews: Computational Statistics* **10**(2), e1420.
3. Hatzenbuehler, ML, JE Flores, JE Cavanaugh, A Onwuachi-Willig, and MR Ramirez (2017). Anti-bullying policies and disparities in bullying: A state-level analysis. *American journal of preventive medicine* **53**(2), 184–191.

Presentations

1. Flores, JE, AA Neath, and JE Cavanaugh (2018). "A Bayesian Model Selection Approach to Multiple Comparisons". Presented at the Joint Statistical Meetings, Vancouver, BC.
2. Flores, JE, AA Neath, and JE Cavanaugh (2018). "A Bayesian Model Selection Approach to Multiple Comparisons". Presented at the University of Iowa Research Week Symposium, Iowa City, IA.
3. Flores, JE, AA Neath, and JE Cavanaugh (2018). "A Bayesian Model Selection Approach to Multiple Comparisons". Presented at the James F. Jakobsen Memorial Graduate Conference, Iowa City, IA.
4. Flores, JE and JE Cavanaugh (2017). "Multiple Comparisons: A Bayesian Model Selection Approach (With An Application to the Effect of State Policy in Reducing Disparities in Bullying)". Presented at the University of Iowa Department of Biostatistics Preceptorship Symposium, Iowa City, IA.
5. Neath, AA, JE Flores, and JE Cavanaugh (2017). "Bayesian Multiple Comparisons and Model Selection". Presented at the University of Iowa Department of Biostatistics Journal Club, Iowa City, IA.

6. Flores, JE, ML Hatzenbuehler, JE Cavanaugh, A Onwuachi-Willig, and MR Ramirez (2017). "Anti-Bullying Policies and Disparities in Bullying: A State-Level Analysis". Presented at the University of Iowa Research Week Symposium, Iowa City, IA.
7. Flores, JE, ML Hatzenbuehler, JE Cavanaugh, A Onwuachi-Willig, and MR Ramirez (2017). "Anti-Bullying Policies and Disparities in Bullying: A State-Level Analysis". Presented at the James F. Jakobsen Memorial Graduate Conference, Iowa City, IA.

Software

1. Flores, JE (2017). "BMSMC". R Package. `https://github.com/javenrflo/BMSMC`.

Leadership & Service

Student Respresentative *2018 - Present*

University of Iowa, Department of Biostatistics Student Advisory Committee

President *2018 - 2019*

University of Iowa, College of Public Health Graduate Student Association

President *2018 - 2019*

University of Iowa, Department of Biostatistics Student Organization

Discussant *2018 - 2019*

University of Iowa Graduate and Professional Student Government

Student Representative *2017 - 2018*

University of Iowa College of Public Health Dean Search Committee

Vice President *2016 - 2018*

University of Iowa, Department of Biostatistics Student Organization

Chair of Operations and Logistics *2016 - 2018*

University of Iowa, College of Public Health Graduate Student Association

Delegate *2015 - 2016*

University of Iowa Graduate Student Senate

Student Representative *2015 - 2016*

University of Iowa College of Public Health Diversity Committee

Honors & Awards

Hancher-Finkbine Distinguished Student Leader Award *2020*

University of Iowa

- One of the university's highest honors, awarded in recognition of meritorious qualities in learning, leadership and loyalty.

William R. Clarke Graduate Student Research Assistant Award *2019*

University of Iowa, Department of Biostatistics

Research Week Poster Award *2018*

University of Iowa, College of Public Health

Leon F. Burmeister Graduate Student Service Award *2017*

University of Iowa, Department of Biostatistics

Kathryn M. Chaloner Memorial Scholarship *2016*

University of Iowa, Department of Biostatistics

Alfred P. Sloan Scholar *2015*

University of Iowa, Sloan Center of Exemplary Mentoring

Iowa Recruitment Fellowship *2015*

University of Iowa, Graduate College

Diversity Recruitment Fellowship *2015*

University of Iowa, College of Public Health Diversity Committee

Summa Cum Laude *2014*

University of Texas at Brownsville, College of Science

University President's List *2010 - 2014*

University of Texas at Brownsville

University Dean's List *2010 - 2014*

University of Texas at Brownsville, College of Science

University Scholar *2010*

University of Texas at Brownsville

Texas Top 10% Scholar *2010*

University of Texas at Brownsville

Statistical Coursework

Biostatistical Computing (R,SAS)
Statistical Inference (I,II)
Survival Data Analysis
Bayesian Methods and Design
CER Methods for Observational Data
Linear Models
Analysis of Categorical Data
Statistical Analysis of Network Data
Biostatistical Methods (I,II,III)
Theory of Biostatistics (I,II)
Model Selection
Longitudinal Data Analysis
Advanced Biostatistical Computing
Statistical Methods in Clinical Trials
Machine Learning for Biomedical Data