

Javier E. Flores

PHD CANDIDATE

Department of Biostatistics, University of Iowa College of Public Health

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Education

Ph.D, Biostatistics

UNIVERSITY OF IOWA, IOWA CITY, IA

2017 - 2021

GPA: 3.98/4.00

M.Sc, Biostatistics

UNIVERSITY OF IOWA, IOWA CITY, IA

2015 - 2017

GPA: 3.96/4.00

B.Sc, Chemistry

UNIVERSITY OF TEXAS AT BROWNSVILLE, BROWNSVILLE, TX

2010 - 2014

GPA: 3.96/4.00

Experience

Research

Graduate Research Assistant

UNIVERSITY OF IOWA, DEPARTMENT OF BIostatISTICS

August 2015 - Present

- 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 Assistant Award for demonstrating excellence in service as a collaborating member of research team(s).

Undergraduate Research Assistant

UNIVERSITY OF IOWA, SUMMER INSTITUTE IN BIostatISTICS

May 2014 - July 2014

- 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

GRINNELL COLLEGE

January 2019 - May 2019

- 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

UNIVERSITY OF IOWA, SUMMER INSTITUTE IN BIostatISTICS

May 2018 - July 2018

- 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

UNIVERSITY OF IOWA, SUMMER INSTITUTE IN BIostatISTICS

2016, 2019

(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 underrepresented 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. Ramirez, M, **JE Flores**, G Cheng, C Peek-Asa, and JE Cavanaugh (In submission). An Approach to Analyzing Correlated Contextual Factors: An Application for Studies on Violence.
2. Ramirez, M, **JE Flores**, B Woods-Jaeger, JE Cavanaugh, C Peek-Asa, C Branch, M Bolenbaugh, V Chande, G Pitcher, HW Ortega, KA Randell, K Wetjen, L Roth, and J Kenardy (In submission). Link for Injured Kids and Trauma Education: A Comparative Effectiveness Study of Two Parent-Based Interventions to Support Children after Traumatic Injury.
3. Ramirez, M, B Woods-Jaeger, C Peek-Asa, JE Cavanaugh, K Wetjen, C Branch, **JE Flores**, L Roth, M Bolenbaugh, EA Stelson, P Espe-Pfeifer, KA Randell, V Chande, HW Ortega, C Jennissen, G Pitcher, L Snetselaar, and J Kenardy (2020). *Comparing Two Approaches to Help Parents Support Their Children's Social and Emotional Recovery after a Serious Accidental Injury*. Tech. rep. Patient-Centered Outcomes Research Institute (PCORI). <https://doi.org/10.25302/07.2020.CER.130602918>.
4. **Flores, JE** and JE Cavanaugh (2018). Partial Likelihood. *Wiley StatsRef: Statistics Reference Online*, 1–5.
5. Neath, AA, **JE Flores**, and JE Cavanaugh (2018). Bayesian multiple comparisons and model selection. *Wiley Interdisciplinary Reviews: Computational Statistics* **10**(2), e1420.
6. 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 and JE Cavanaugh (2020). "A-I-(Don't)-C the Future: A New Class of Selection Criteria Geared Towards (Better) Prediction". Presented virtually at the Joint Statistical Meetings.

- Flores, JE, AA Neath, and JE Cavanaugh (2018). "A Bayesian Model Selection Approach to Multiple Comparisons". Presented at the Joint Statistical Meetings, Vancouver, BC.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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

- Flores, JE (2017). "BMSMC". R Package. <https://github.com/javenrflo/BMSMC>.

Leadership & Service

Student Representative

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 UNIVERSITY OF IOWA, DEPARTMENT OF BIOSTATISTICS	2017
Kathryn M. Chaloner Memorial Scholarship UNIVERSITY OF IOWA, DEPARTMENT OF BIOSTATISTICS	2016
Alfred P. Sloan Scholar UNIVERSITY OF IOWA, SLOAN CENTER OF EXEMPLARY MENTORING	2015
Iowa Recruitment Fellowship UNIVERSITY OF IOWA, GRADUATE COLLEGE	2015
Diversity Recruitment Fellowship UNIVERSITY OF IOWA, COLLEGE OF PUBLIC HEALTH DIVERSITY COMMITTEE	2015
Summa Cum Laude UNIVERSITY OF TEXAS AT BROWNSVILLE, COLLEGE OF SCIENCE	2014
University President's List UNIVERSITY OF TEXAS AT BROWNSVILLE	2010 - 2014
University Dean's List UNIVERSITY OF TEXAS AT BROWNSVILLE, COLLEGE OF SCIENCE	2010 - 2014
University Scholar UNIVERSITY OF TEXAS AT BROWNSVILLE	2010
Texas Top 10% Scholar UNIVERSITY OF TEXAS AT BROWNSVILLE	2010

Statistical Coursework

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

Programming Experience

R, SAS, C++ (Basic Proficiency), Tableau, Minitab, GitHub

References

Joseph E. Cavanaugh, PhD

Professor, Head, Department of Biostatistics
University of Iowa College of Public Health
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Gideon K.D. Zamba, PhD

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University of Iowa College of Public Health
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Marizen Ramirez, PhD

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University of Minnesota School of Public Health
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Jacob Oleson, PhD

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