

# JAVIER E. FLORES

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## EDUCATION

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### Doctor of Philosophy, Biostatistics

University of Iowa, Iowa City, IA

Expected Conferral: 2020

GPA: 3.98/4.0

### Master of Science, Biostatistics

University of Iowa, Iowa City, IA

Fall 2017

GPA: 3.96/4.0

### Bachelor of Science, Chemistry

University of Texas at Brownsville, Brownsville, TX

Fall 2014

GPA: 3.96/4.0

## PROFESSIONAL EXPERIENCE

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### Research Assistant

*University of Iowa*

Fall 2015 - Present

- Distilled statistical analyses and insight into forms which facilitated understanding by teams of varied backgrounds (e.g MDs, epidemiologists, psychologists).
- Provided analytic direction and focus to cross-sectional and longitudinal studies.
- Leveraged statistical frameworks (e.g. generalized linear models, generalized linear mixed models) in the analysis of data.

### Visiting Instructor

*Grinnell College*

Spring 2019

- Developed course materials for and taught Applied Statistics (STA209).
- Instilled statistical intuition and understanding through real-world examples and the analysis of real datasets.
- Served as the project advisor for two winning submissions (1st and 3rd place) to the Spring 2019 Undergraduate Class Project Competition, Introductory Statistics Division.

### Project Advisor

*University of Iowa Summer Institute in Biostatistics*

2016, 2019 (Summers)

- Fostered the professional growth of two undergraduate students from non-statistical backgrounds, both of which later enrolled in graduate programs of biostatistics.
- Explained modelling frameworks and other statistical knowledge to ensure their correct implementation in a data-analytic project.
- Taught practical computing and data-analytic skills through frequently held meetings.

### Lab Instructor

*University of Iowa Summer Institute in Biostatistics*

Summer 2018

- Designed lectures and exercises to instill understanding of fundamental statistical concepts and computational skills.
- Guided student progress in their capstone projects for the program.
- Encouraged group discussion and collaboration in solving challenging practice and project problems.

**Director of Student Relations**

2016-2018 (Summers)

*University of Iowa Summer Institute in Biostatistics*

- 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.
- Cumulated student interest in the field of biostatistics and in the University of Iowa's graduate program in biostatistics.

**Mathematics Tutor**

2011 - 2015

*University of Texas at Brownsville*

- Adapted provided notes and homework to create individualized lessons and exercises for students.
- Pioneered the use of online tutoring as an additional resource for student learning.
- Assessed and improved tutoring efficacy based on feedback received through consistent dialogue with students.

**Undergraduate Research Assistant**

Summer 2014

*University of Iowa Summer Institute in Biostatistics*

- Identified risk factors for select high risk behaviors among Iowa youth.
- Applied logistic regression in order to model relationships between identified risk factors and behaviors.
- Packaged inferential results for use as a risk-assessment tool which characterized high-risk youth profiles.

**General Biology Tutor**

Fall 2011

*University of Texas at Brownsville*

- Tailored group review sessions to address determined 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**

Fall 2010 - Fall 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.

**MENTORING**

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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.

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 Undergraduate Class Project Competition, Introductory Statistics Division.

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 Undergraduate Class Project Competition, Introductory Statistics Division.

Saketan Anand (2019). "Identifying Race-Based Trends for Victims of Crimes in L.A.", Grinnell College. Project submitted to the Spring 2019 Undergraduate Class Project Competition, Introductory Statistics Division.

Sherry Huang, Nicole Kreider, Sabrena Scheffel (2019). "The Effect of Barriers on SNAP Participation", Grinnell College. Project submitted to the Spring 2019 Undergraduate Class Project Competition, Introductory Statistics Division.

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.

## REFEREED PUBLICATIONS

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**Flores Javier E.**, Cavanaugh Joseph E.. Partial Likelihood. *Wiley StatsRef: Statistics Reference Online* (eds D. Harrington, N. Balakrishnan, T. Colton, B. Everitt, W. Piegorsch, F. Ruggeri and J. L. Teugels) (In Press).

Neath Andrew A., **Flores Javier E.**, Cavanaugh Joseph E.. Bayesian multiple comparisons and model selection. *WIREs Comp Stat* (2018), 10: null. doi:10.1002/wics.1420

Hatzenbuehler Mark L., **Flores Javier E.**, Cavanaugh Joseph E., Onwuachi-Willig Angela, Ramirez Marizen R.. Anti-Bullying Policies and Disparities in Bullying: A State-Level Analysis. *American Journal of Preventative Medicine* (2017), 53 (2), 184-191. doi:10.1016/j.amepre.2017.02.004

## PRESENTATIONS

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**Flores Javier E.**, Neath Andrew A., Cavanaugh Joseph E. (2018 July). A Bayesian Model Selection Approach to Multiple Comparisons. SPEED Session (hybrid talk/poster) presented at the Joint Statistical Meetings, Vancouver, BC.

**Flores Javier E.**, Neath Andrew A., Cavanaugh Joseph E. (2018 April). A Bayesian Model Selection Approach to Multiple Comparisons. Poster session presented at the University of Iowa Research Week Symposium, Iowa City, IA.

**Flores Javier E.**, Neath Andrew A., Cavanaugh Joseph E. (2018 March). A Bayesian Model Selection Approach to Multiple Comparisons. Poster session presented at the James F. Jakobsen Memorial Graduate Conference, Iowa City, IA.

**Flores Javier E.**, Cavanaugh Joseph E. (2017 December). Multiple Comparisons: A Bayesian Model Selection Approach (With An Application to the Effect of State Policy in Reducing Disparities in Bullying). Presentation given for the University of Iowa Department of Biostatistics Preceptorship Symposium, Iowa City, IA.

Neath Andrew A., **Flores Javier E.**, Cavanaugh Joseph E. (2017 December). Bayesian Multiple Comparisons and Model Selection. Paper presented at the University of Iowa Department of Biostatistics Journal Club, Iowa City, IA.

Peeka-Asa Corinne, **Flores Javier E.**, Carnahan Ryan M., Vaughn Thomas E., Gilbert Paul A. (2017 October). Hot Topics Case Study - Opioid Epidemic. Group presentation given for the University of Iowa College of Public Health Program and Degree Exploration Day, Iowa City, IA.

**Flores Javier E.**, Hatzenbuehler Mark L., Cavanaugh Joseph E., Onwuachi-Willig Angela, Ramirez Marizen R. (2017 March). Anti-Bullying Policies and Disparities in Bullying: A State-Level Analysis. Poster session presented at the University of Iowa Research Week Symposium, Iowa City, IA.

**Flores Javier E.**, Hatzenbuehler Mark L., Cavanaugh Joseph E., Onwuachi-Willig Angela, Ramirez Marizen R. (2017 March). Anti-Bullying Policies and Disparities in Bullying: A State-Level Analysis. Poster session presented at the James F. Jakobsen Memorial Graduate Conference, Iowa City, IA.

## SOFTWARE

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**Flores Javier E.** (2017). BSMC. GitHub repository. <https://github.com/javenrflo/BSMC>.

## LEADERSHIP & SERVICE

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<b>Student Representative, Student Advisory Committee</b> University of Iowa, Department of Biostatistics	2018 - Present
<b>President, Graduate Student Association</b> University of Iowa, College of Public Health	2018 - 2019
<b>President, Biostatistics Student Organization</b> University of Iowa, Department of Biostatistics	2018 - 2019
<b>Discussant, Graduate &amp; Professional Student Government</b> University of Iowa, Graduate College	2018 - 2019
<b>Student Representative, Dean Search Committee</b> University of Iowa, College of Public Health	2017 - 2018
<b>Vice-President, Biostatistics Student Organization</b> University of Iowa, Department of Biostatistics	2016 - 2018
<b>Operations &amp; Logistics Chair, Graduate Student Association</b> University of Iowa, College of Public Health	2016 - 2018
<b>Delegate, Graduate Student Senate</b> University of Iowa, Graduate College	2015 - 2016
<b>Student Representative, Diversity Committee</b> University of Iowa, College of Public Health	2015 - 2016

## HONORS & AWARDS

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<b>William R. Clarke Graduate Student Research Assistant Award</b> Department of Biostatistics, University of Iowa	2019
<b>Research Week Poster Award</b> College of Public Health, University of Iowa	2018
<b>Leon F. Burmeister Graduate Student Service Award</b> Department of Biostatistics, University of Iowa	2017
<b>Kathryn M. Chaloner Memorial Scholarship</b> Department of Biostatistics, University of Iowa	2016
<b>Alfred P. Sloan Scholar</b> Sloan Center of Exemplary Mentoring, University of Iowa	2015
<b>Iowa Recruitment Fellowship</b> Graduate College, University of Iowa	2015
<b>Diversity Recruitment Fellowship</b> College of Public Health Diversity Committee, University of Iowa	2015

<b>Summa Cum Laude</b>	2014
College of Science, University of Texas at Brownsville	
<b>University President's List</b>	2010 - 2014
University of Texas at Brownsville	
<b>University Dean's List</b>	2010 - 2014
College of Science, University of Texas at Brownsville	
<b>University Scholar</b>	2010
University of Texas at Brownsville	
<b>Texas Top 10% Scholar</b>	2010
University of Texas at Brownsville	

## STATISTICAL COURSEWORK

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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	