

# 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 HISTORY

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### Research Assistant

*University of Iowa*

August 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.

### Director of Student Relations

*University of Iowa Summer Institute in Biostatistics*

2016-2018 (Summers)

- 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.

### 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.

### Project Advisor

*University of Iowa Summer Institute in Biostatistics*

May 2016 - July 2016

- 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.

**Mathematics Tutor**

August 2011 - June 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**

May 2014 - July 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**

August 2011 - December 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**

August 2010 - August 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.

**LEADERSHIP & SERVICE**

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**President, Graduate Student Association**

August 2018 - Present

University of Iowa, College of Public Health

**President, Biostatistics Student Organization**

August 2018 - Present

University of Iowa, Department of Biostatistics

**Student Representative, Student Advisory Committee**

August 2018 - Present

University of Iowa, Department of Biostatistics

**Discussant, Graduate & Professional Student Government**

August 2018 - Present

University of Iowa, Graduate College

**Student Representative, Dean Search Committee**

August 2017 - April 2018

University of Iowa, College of Public Health

**Vice-President, Biostatistics Student Organization**

August 2016 - July 2018

University of Iowa, Department of Biostatistics

**Operations & Logistics Chair, Graduate Student Association**

August 2016 - July 2018

University of Iowa, College of Public Health

**Delegate, Graduate Student Senate**

August 2015 - July 2016

University of Iowa, Graduate College

**Student Member, Diversity Committee**

August 2015 - May 2016

University of Iowa, College of Public Health

## 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>.

## HONORS & AWARDS

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<b>Research Week Poster Award</b> College of Public Health, University of Iowa	April 2018
<b>Leon F. Burmeister Graduate Student Service Award</b> Department of Biostatistics, University of Iowa	December 2017
<b>Kathryn M. Chaloner Memorial Scholarship</b> Department of Biostatistics, University of Iowa	December 2016
<b>Alfred P. Sloan Scholar</b> Sloan Center of Exemplary Mentoring, University of Iowa	April 2015
<b>Iowa Recruitment Fellowship</b> Graduate College, University of Iowa	April 2015
<b>Diversity Recruitment Fellowship</b> College of Public Health Diversity Committee, University of Iowa	April 2015
<b>Summa Cum Laude</b> College of Science, University of Texas at Brownsville	December 2014
<b>University President's List</b> University of Texas at Brownsville	2010-2014
<b>University Dean's List</b> College of Science, University of Texas at Brownsville	2010-2014
<b>University Scholar</b> University of Texas at Brownsville	August 2010
<b>Texas Top 10% Scholar</b> University of Texas at Brownsville	August 2010

## 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 (Fall 2018)	