

Brittany Alexander

Curriculum Vitae

August 30, 2021

1 Education

Texas A&M University - Statistics Ph.D. August 2018-
GPA: 3.63/4 (as of 6/1/2021)
Ph.D.Candidate
Expected Defense December 2021/ January 2022
Texas Tech University – Mathematics B.S., Minor in Economics August 2015- May 2018
Honors College GPA: 3.755

2 Professional Experience

Texas A&M University Department of Statistics August 2018 -
Graduate Assistant - Teaching
Teaching Assistant Stat 201 (Fall 2018, Spring 2019)
Instructor of Record Stat 201 (Fall 2019, Spring 2020)
Research Assistant (Fall 2020)
Graduate Assitant - Teaching (Spring 2021, Fall 2021)
Texas A&M University Institute For Science, Technology and Public Policy October 2019-
Pre-Doctoral Research Fellow
Worked on analyzing panel public opinion data on public policy.

3 Publications

3.1 Peer Reviewed Publications

B. Alexander "A Bayesian Model for the Prediction of United States Presidential Elections" 2019, SIAM Undergraduate Research Online, Volume 12

3.2 Conference Publications

"Poll-Based Bayesian Models to Predict United States Presidential Elections". B. Alexander, Leif Ellingson, Joint Statistical Meetings Proceedings 2019.

4 Presentations

4.1 Oral Presentations

B. Alexander "A Bayesian Model for Inference on Multiple Panel Public Opinion Surveys" Joint Statistical Meetings. Virtual. August 12, 2021. **B. Alexander** "A Poll-Based Bayesian Hierarchical Model for American Presidential Elections" American Associaton for Public Opinion Research

Conference 2021. Virtual. May 11, 2021. **B. Alexander** "Understanding Terrorism Policy Preferences through Bayesian Model Averaging and Multiple Imputation" American Association for Public Opinion Research Conference 2021. Virtual. May 11, 2021. **B. Alexander** "Understanding Terrorism Policy Preferences through Bayesian Model Averaging and Multiple Imputation" Midwest Association for Public Opinion Research Conference 2020. Virtual. November 20, 2020. **B. Alexander** "Understanding Terrorism Policy Preferences through Bayesian Model Averaging and Multiple Imputation" Southern Association for Public Opinion Research Conference 2020. Virtual. October 1, 2020. **B. Alexander** "The Predictive Power and Accuracy of State-Level Presidential Polls" American Association for Public Opinion Research Conference 2020. June 11, 2021 Virtual. **B. Alexander**, Leif Ellingson. "A Bayesian Statistical Model for the Prediction of the 2016 United States Presidential Election". Texas Tech University Statistics Seminar: Lubbock, TX. October 31, 2016.

B. Alexander, Leif Ellingson. "Predicting Elections and Undergraduate Research". Midland College Public Seminar: Midland, TX. October 28, 2016.

B. Alexander, Leif Ellingson, "A Bayesian Statistical Analysis of the GOP Presidential Nomination for 2016, March 30, 2016
Texas Tech University Undergraduate Research Conference

4.2 Poster Presentations

B. Alexander "Bayesian Hierarchical Models for the Prediction of American Elections" American Association for Public Opinion Research Conference 2020. June 11, 2021. Virtual. "Poll-Based Bayesian Models to Predict United States Presidential Elections". Joint Statistical Meetings 2019. Denver, CO. August 6, 2019. **B. Alexander**, Leif Ellingson.

"Poll-Based Bayesian Models to Predict United States Presidential Elections". Southern Regional Council on Statistics (SRCOS) 2019 Conference. Carrollton, KY. June 3, 2019. **B. Alexander**, Leif Ellingson.

"A Bayesian Statistical Model to Predict American Presidential Elections". Conference of Texas Statisticians. Lubbock, TX. April 13, 2018. **B. Alexander**, Leif Ellingson.

"A Bayesian Statistical Model to Predict American Presidential Elections". Texas Tech University Undergraduate Research Conference. Lubbock, TX. March 27, 2018.

B. Alexander, Leif Ellingson. "A Bayesian Statistical Model for the Prediction of the 2016 United States Presidential Election". Electronic Undergraduate Statistics Research Conference. November 3rd, 2017.

B. Alexander, Leif Ellingson. "A Bayesian Statistical Model for the Prediction of the 2016 United States Presidential Election". Texas Tech University Undergraduate Research Conference. Lubbock, TX. March 28, 2017.

B. Alexander, Leif Ellingson, "A Bayesian Statistical Model for the Prediction of the 2016 United States Presidential Election". Nebraska Conference for Undergraduate Women in Mathematics. Lincoln, NE. February 5, 2017.

5 Research Interests

Bayesian Inference, Survey Methodology, Social Science Statistics, Public Opinion, Statistical Communication.

6 Awards

Harshbarger Travel Award, June 2, 2019

- For travel to SRCOS Conference

1st Place, Conference of Texas Statisticians Conference Poster Contest, April 13th, 2018

Honorable Mention, 2018 Outstanding Undergraduate Researcher

- Awarded by the Center for Active Learning and Undergraduate Engagement at Texas Tech University

Ali Amir Moez Award for Undergraduate Research

April 2016, April 2017

- Awarded by Texas Tech Department of Mathematics and Statistics for excellence in undergraduate research

Honorable Mention, Undergraduate Statistics Research Project Paper Contest

Spring 2017

- Contest sponsored by the American Statistical Association & the Consortium for the Advancement of Undergraduate Statistics Education

PRISM Scholar

August 2014, August 2015-Spring 2016

- NSF funded program to encourage students to pursue a career in science in math
- Participated in the 2014 summer Research Experience for Undergraduates

Undergraduate Research Scholar

September 2016-May 2018

- Received funding from Texas Tech Honors College to conduct research

7 Professional Organizations and Honor Societies

American Statistical Association

January 2017-Present

American Association for Public Opinion Research

October 2019-Present

Golden Key International Honour Society

September 2016-Present

Phi Beta Kappa, Texas Tech University Chapter

April 2018-Present