

# JBRANDON DUCK-MAYR | CV

PhD Candidate

📍 Washington University in St. Louis  
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## Research Interests

• Quantitative methods • Bayesian statistics • Game theory • American politics • Judicial politics

## Technical Skills

• C++ • Python • R •  $\LaTeX$  • bash • git • Linux • Cluster computing

## Education

### PhD, Political Science

Washington University in St. Louis

Committee: James F. Spriggs, II (Chair), Lee Epstein, Randall Calvert

Expected 2021

### JD

Baylor Law School

Magna Cum Laude, Class Rank: Top 5%

2015

### BA, Political Science

Baylor University

Magna Cum Laude, Phi Beta Kappa

2011

## Research

### Peer Reviewed Publications

#### GPIRT: A Gaussian Process Model for Item Response Theory

with Roman Garnett and Jacob Montgomery

Proceedings of the Thirty-Sixth Conference on Uncertainty in Artificial Intelligence

2020

### Under Review

#### Agenda Setting and Attention to Precedent in the U.S. Federal Courts

with Thomas Hansford and James F. Spriggs, II;

revise and resubmit at Journal of Law and Courts

#### Explaining Confusion in the Law

revise and resubmit at Journal of Theoretical Politics

### Working Papers

#### Gaussian Process Regression Discontinuity

with Joseph Ornstein

#### A Shared Framework for Empirical and Theoretic Models of Judicial Choice Involving Case Facts

#### Ends Against the Middle: Scaling Votes When Ideological Opposites Behave the Same for Antithetical Reasons

with Jacob Montgomery

## Judicial Independence and Political Competition: A Demand-Side Explanation

with David Carlson and Joshua Boston

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### Works in Progress

#### Gaussian Process Classification for Political Science

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#### Judges' Views on Presidential Power and Promotion to the U.S. Supreme Court

with Ryden Butler, David R. Miller, and Erin Rossiter

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### Software

#### **bggum**

2020

v1.0.2 is on CRAN

Bayesian Estimation of Generalized Graded Unfolding Model Parameters. Provides a Metropolis-coupled Markov chain Monte Carlo sampler, post-processing and parameter estimation functions, and plotting utilities for the generalized graded unfolding model of Roberts, Donoghue, and Laughlin (2000) <doi:10.1177/01466216000241001>.

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#### **RcppDist**

2018

v0.1.1 is on CRAN

'Rcpp' Integration of Additional Probability Distributions. The 'Rcpp' package provides a C++ library to make it easier to use C++ with R. 'RcppDist' provides a header-only C++ library with functions for additional statistical distributions that can be called from C++ when writing code using 'Rcpp' or 'RcppArmadillo'.

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### Awards

#### **Antoinette Dames Prize**

2018

Washington University in St. Louis

Awarded for the best paper in a graduate level course, for "Explaining Confusion in the Law"

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#### **University Fellowship**

2015-Present

Washington University in St. Louis

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#### **Funderburk Evidence Award**

2015

Baylor Law School

Awarded for the best work in Evidence, funded by Funderburk & Funderburk.

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#### **Performance Scholarship**

2015

Baylor Law School

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#### **Baylor Law Review Association Award**

2014

Baylor Law School

Awarded to Baylor Law Review members selected with the faculty advisor.

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#### **William J. Boswell Memorial Award**

2013

Baylor Law School

Awarded for the best work in Torts, given in memory of Dean Emeritus William J. Boswell by R. Jack Ayres, Jr.

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#### **Dean's Academic Excellence Scholarship**

2012-2015

Baylor Law School

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## Conference Participation

<b>MPSA Annual Meeting</b> "Explaining Confusion in the Law"	2019
<b>Society for Political Methodology Annual Meeting</b> "Measuring Non-Monotonic Response with the Generalized Graded Unfolding Mode" (Poster)	2018
<b>APSA Annual Meeting</b> "Judicial Independence as a Function of Political Competition"	2018
<b>MPSA Annual Meeting</b> "Judicial Independence as a Function of Political Competition"	2017
<b>APSA Annual Meeting</b> "Agency Characteristics and Presidential Particularism"	2016

## Service and Activities

<b>Graduate Student Senator</b> Washington University in St. Louis	2018-2020
<b>Cohort Representative</b> Washington University in St. Louis	2015-Present
<b>Political Data Science Lab</b> Washington University in St. Louis	2015-Present
<b>Senior Executive Editor, Baylor Law Review</b> Baylor Law School Evaluated submissions for publication	2014-2015
<b>Executive Editor, Baylor Law Review</b> Baylor Law School Supervised members' writing requirement progress	2014
<b>Associate Editor, Baylor Law Review</b> Baylor Law School Checked citation accuracy and edited manuscripts	2013
<b>Evidence Coach, Baylor Law School AAJ Mock Trial Team</b> Baylor Law School Gave evidence law lectures and research support	2015

## Teaching Experience

<b>Instructor for Constitutional Law</b> Washington University in St. Louis	Summer 2018, Spring 2020
<b>Teaching Assistant for Keith Schnakenberg (Game Theory)</b> Washington University in St. Louis	Spring, Fall 2018
<b>Teaching Assistant for Jacob Montgomery (Math Camp)</b> Washington University in St. Louis	Summer 2018, 2019
<b>Teaching Assistant for Lee Epstein (Constitutional Law)</b> Washington University in St. Louis	Spring 2017, 2019