JBrandon Duck-Mayr | CV

PhD Candidate

 Washingon 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   Expected 2021
Washington University in St. Louis
Committee: James F. Spriggs, II (Chair), Lee Epstein, Randall Calvert

JD   2015
Baylor Law School
Magna Cum Laude, Class Rank: Top 5%

BA, Political Science   2011
Baylor University
Magna Cum Laude, Phi Beta Kappa

Research

Under Review

GPIRT: A Gaussian Process Model for Item Response Theory
with Roman Garnett and Jacob Montgomery
awaiting decision at the Conference on Uncertainty in Artificial Intelligence

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
awaiting decision 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

Works in Progress

Gaussian Process Classification for Political Science

Judges' Views on Presidential Power and Promotion to the U.S. Supreme Court
with Ryden Butler, David R. Miller, and Erin Rossiter

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>.

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'.

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"

University Fellowship   2015-Present
Washington University in St. Louis

Funderburk Evidence Award   2015
Baylor Law School
Awarded for the best work in Evidence, funded by Funderburk & Funderburk.

Performance Scholarship   2015
Baylor Law School

Baylor Law Review Association Award   2014
Baylor Law School
Awarded to Baylor Law Review members selected with the faculty advisor.

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.

Dean's Academic Excellence Scholarship   2012-2015
Baylor Law School

Conference Participation

MPSA Annual Meeting   2019
"Explaining Confusion in the Law"

Society for Political Methodology Annual Meeting   2018
"Measuring Non-Monotonic Response with the Generalized Graded Unfolding Model"
(Poster)

APSA Annual Meeting   2018
"Judicial Independence as a Function of Political Competition"

MPSA Annual Meeting   2017
"Judicial Independence as a Function of Political Competition"

APSA Annual Meeting   2016
"Agency Characteristics and Presidential Particularism"

Service and Activities

Graduate Student Senator   2018-2020
Washington University in St. Louis

Cohort Representative   2015-Present
Washington University in St. Louis

Political Data Science Lab   2015-Present
Washington University in St. Louis

Senior Executive Editor, Baylor Law Review   2014-2015
Baylor Law School
Evaluated submissions for publication

Executive Editor, Baylor Law Review   2014
Baylor Law School
Supervised members' writing requirement progress

Associate Editor, Baylor Law Review   2013
Baylor Law School
Checked citation accuracy and edited manuscripts

Evidence Coach, Baylor Law School AAJ Mock Trial Team   2015
Baylor Law School
Gave evidence law lectures and research support

Teaching Experience

Instructor for Constitutional Law   Summer 2018, Spring 2020
Washington University in St. Louis

Teaching Assistant for Keith Schnakenberg (Game Theory)   Spring, Fall 2018
Washington University in St. Louis

Teaching Assistant for Jacob Montgomery (Math Camp)   Summer 2018, 2019
Washington University in St. Louis

Teaching Assistant for Lee Epstein (Constitutional Law)   Spring 2017, 2019
Washington University in St. Louis