

Academic Experience

The University of Chicago Booth School of Business, Econometrics and Statistics Postdoctoral Scholar Interests: <i>causal inference, randomizations, networks, machine learning, applications of statistics</i>	2018 - present
The University of Texas at Austin McCombs School of Business, Statistics Group Graduate Research Assistant	2013 - 2018
Wesleyan University Mathematics and Physics Departments Teaching Assistant	2009 - 2011
The University of California, Los Angeles Institute for Pure and Applied Math Researcher	Summer 2010
Max Planck Institute, Göttingen, Germany Dynamics and Self-organization Researcher	Summer 2009

Education

The University of Texas at Austin McCombs School of Business, Statistics Group Ph.D., Statistics Topics: <i>causal inference, Bayesian modeling, applications of statistics</i>	2018
The University of Texas at Austin McCombs School of Business, Statistics Group M.S., Statistics	2015
Wesleyan University Honors in Mathematics, Phi Beta Kappa B.A., Mathematics and Physics	2011

Publications

<i>Fisher meets BART: Integrating Causal Machine Learning and Randomization Tests</i> David Puelz and Panos Toulis In preparation (2020)
<i>Estimating Displacement Effects of a Hot Spot Policing Intervention in Medellín, Colombia</i> Guillaume Basse, Avi Feller, Donald Green, David Puelz, and Panos Toulis In preparation (2020)

A Symmetric Prior for Multinomial Probit Models
Lane Burgette, David Puelz, and P. Richard Hahn
Submitted (2020)
[\[arXiv:1912.10334\]](#)

Monotonic Effects of Characteristics on Returns
Jared Fisher, David Puelz, and Carlos Carvalho
Revision (2020)
[\[SSRN:3212934\]](#)

A Graph-Theoretic Approach to Randomization Tests of Causal Effects Under General Interference
David Puelz, Panos Toulis, Guillaume Basse, and Avi Feller
Submitted (2019)
[\[arXiv:1910.10862\]](#)

Financial Literacy and Economic Outcomes
David Puelz and Robert Puelz
Submitted (2019)
[\[SSRN:3302978\]](#)

Portfolio Selection for Individual Passive Investing
David Puelz, P. Richard Hahn, and Carlos Carvalho
Applied Stochastic Models in Business and Industry (2019)
[\[SSRN:2995484\]](#)

Regularization and Confounding in Linear Regression for Treatment Effect Estimation
P. Richard Hahn, Carlos Carvalho, David Puelz, and Jingyu He
Bayesian Analysis 13 (2018). No 1
[\[link to journal\]](#)

Variable Selection in Seemingly Unrelated Regressions with Random Predictors
David Puelz, P. Richard Hahn, and Carlos M. Carvalho
Bayesian Analysis 12 (2017). No 4
[\[link to journal\]](#)

Optimal ETF Selection for Passive Investing
David Puelz, P. Richard Hahn, and Carlos Carvalho
Working paper
[\[arXiv:1510.03385\]](#)

Presentations

A Graph-Theoretic Approach to Randomization Tests of Causal Effects Under General Interference
Design and Analysis of Experiments — University of Tennessee, Knoxville
Knoxville, TN — October 2019

A Graph-Theoretic Approach to Randomization Tests of Causal Effects Under General Interference
Advances with Field Experiments — University of Chicago
Chicago, IL — September 2019

A Graph-Theoretic Approach to Randomization Tests of Causal Effects Under General Interference (Poster)
*Best Poster prize winner

Society for Political Methodology Annual Meeting — MIT
Cambridge, MA — July 2019

Monotonic Effects of Characteristics on Returns
Eastern Asia ISBA Conference — Kobe University
Kobe, JP — July 2019

A Graph-Theoretic Approach to Randomization Tests of Causal Effects Under General Interference
Economics Workshop — Keio University
Tokyo, JP — July 2019

Monotonic Effects of Characteristics on Returns
Seminar on Bayesian Inference in Econometrics and Statistics — Brown University
Providence, RI — May 2019

Randomization Tests of Causal Effects Under General Interference
Atlantic Causal Inference Conference — McGill University
Montreal, CA — May 2019

Randomization Tests of Causal Effects Under General Interference
international conference on design of experiments — University of Memphis
Memphis, TN — May 2019

Randomization Tests of Causal Effects Under General Interference
Chicago Booth Econometrics and Statistics Seminar
Chicago, IL — February 2019

Monotonic Effects of Characteristics on Returns
Chicago Booth Research Workshop
Chicago, IL — December 2018

Utility-based Feature Selection for Econometrics
International Society for Bayesian Analysis World Meeting
Edinburgh, UK — June 2018

Posterior Summarization
University of Notre Dame Mendoza School of Business
South Bend, IN — November 2017

Utility-based Feature Selection for Finance and Econometrics
IROM PhD Seminar. University of Texas.
Austin, TX — November 2017

Regret-based Selection
Informs Annual Meeting
Houston, TX — October 2017

Sparse Dynamic Portfolio Selection
Joint Statistical Meetings
Baltimore, MD — August 2017

Sparse Dynamic Portfolio Selection
Informs Advances in Decision Analysis

Austin, TX — June 2017

Regret-based Selection

Seminar on Bayesian Inference in Econometrics and Statistics — Washington University
St. Louis, MO — May 2017

Penalized Utility Estimators in Finance

IROM Department Symposium. University of Texas
Austin, TX — February 2017

Posterior Summarization in Finance

IROM PhD Seminar. University of Texas
Austin, TX — November 2016

Sparse Mean-Variance Portfolios

Joint Statistical Meetings
Chicago, IL — August 2016

Penalized Utility Estimators in Finance

International Society for Bayesian Analysis World Meeting
Sardinia, Italy — June 2016

Penalized Utility Estimators in Finance

Seminar on Bayesian Inference in Econometrics and Statistics — University of Pennsylvania
Philadelphia, PA — April 2016

Sparse ETF Investing

IROM PhD Seminar. University of Texas
Austin, TX — March 2016

Penalized Utility Estimators in Finance

Goldman Sachs & Co
New York City, NY — February 2016

The ETF Tangency Portfolio

Seminar on Bayesian Inference in Econometrics and Statistics — Washington University
St. Louis, MO — May 2015

Honors

Graduate Continuing Fellowship

University of Texas Graduate School — 2017 - 2018

Professional Development Award

University of Texas McCombs School of Business — 2015 - 2016

Dean's Fellowship

University of Texas McCombs School of Business — 2013 - 2018

Bonham Fellowship

University of Texas McCombs School of Business — 2014

Jastrow Fellowship
University of Texas McCombs School of Business — 2013

Rae Shortt Prize (excellence in mathematics)
Wesleyan University — 2010

Robertson Prize (outstanding sophomore in mathematics)
Wesleyan University — 2009

Service

Referee For: Annals of Applied Statistics, Journal of Business and Economic Statistics, Neural Computing and Applications.

Employment

i-360, LLC	2018 - present
Data Science Team	
Part-time Econometric Consulting	

Goldman Sachs & Co.	2011 - 2012
Investment Management Division	
Analyst	