David Puelz

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Academic Experience

The University of Chicago — 2018 - present
Booth School of Business, Econometrics and Statistics
Principal Researcher
Interests: *causal inference, randomizations, networks, machine learning, applications of statistics*

The University of Texas at Austin — 2013 - 2018
McCombs School of Business, Statistics Group
Graduate Research Assistant

Wesleyan University — 2009 - 2011
Mathematics and Physics Departments
Teaching Assistant

The University of California, Los Angeles — Summer 2010
Institute for Pure and Applied Math
Researcher

Max Planck Institute, Göttingen, Germany — Summer 2009
Dynamics and Self-organization
Researcher

Education

The University of Texas at Austin — 2018
McCombs School of Business, Statistics Group
Ph.D., Statistics
Topics: *statistical finance, causal inference, Bayesian modeling, applications of statistics*

The University of Texas at Austin — 2015
McCombs School of Business, Statistics Group
M.S., Statistics

Wesleyan University — 2011
Honors in Mathematics, Phi Beta Kappa
B.A., Mathematics and Physics

Publications

Fisher meets BART: Integrating Causal Machine Learning and Randomization Tests
David Puelz and Panos Toulis
In preparation (2020)

Estimating Displacement Effects of a Hot Spot Policing Intervention in Medellín, Colombia
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
Bayesian Analysis (to appear)
[arXiv:1912.10334]

Monotonic Effects of Characteristics on Returns
Jared Fisher, David Puelz, and Carlos Carvalho
Annals of Applied Statistics (to appear)
[SSRN:3212934]

A Graph-Theoretic Approach to Randomization Tests of Causal Effects Under General Interference
David Puelz, Panos Toulis, Guillaume Basse, and Avi Feller
In revision at the Journal of the Royal Statistical Society, Series B (2020)
[arXiv:1910.10862]

Financial Literacy and Perceived Economic Outcomes
David Puelz and Robert Puelz
Submitted (2020)
[SSRN:3302978]

Portfolio Selection for Individual Passive Investing
David Puelz, P. Richard Hahn, and Carlos Carvalho
Applied Stochastic Models in Business and Industry (2020)
[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

Randomization Tests of Causal Effects Under General Interference
Arizona State University
Virtual — November 2020

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, Canadian Journal of Statistics, Econometrics and Statistics, Journal of Statistical Theory and Practice.

Chicago Booth Research Staff Advisory Group, 2020 - present.

Employment

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

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

(updated February 2021)