

## Experience

The University of Austin Center for Science, Technology, Engineering, and Mathematics Assistant Professor of Statistics and Data Science	2024 - present
The University of Texas at Austin School of Civic Leadership and McCombs School of Business Assistant Professor of Instruction and Director of Policy Research Lab	2021 - present
The University of Chicago Booth School of Business Principal Researcher Interests: <i>causal inference, randomizations, networks, machine learning, applications of statistics</i>	2018 - 2021
The University of Texas at Austin McCombs School of Business Graduate Research Assistant	2013 - 2018

## Education

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

## Publications

*A Bayesian Classification Trees Approach to Treatment Effect Variation with Noncompliance*  
Jared Fisher, David Puelz, and Sameer Deshpande  
In preparation (2023)

*Financial Literacy and Financial Well-being*  
David Puelz, Myeongrok Doh, and Robert Puelz  
In preparation (2023)

*Posterior Summarization for Time Varying Dynamic Bayesian Networks*  
Si Kai Lee, Sam Wang, David Puelz, and Mladen Kolar  
In preparation (2023)

*Fear the Reaper: Estimating the Effect of Drone Strikes on Terrorist Violence using Bayesian Causal Forests*  
Taylor Cox and David Puelz  
In preparation (2023)

*Fisher meets BART: Integrating Causal Machine Learning and Randomization Tests*

David Puelz, JungHo Lee, and Panos Toulis

In preparation (2023)

*The Disutility of Compartmental Model Forecasts During the COVID-19 Pandemic*

Tarini Sudhakar, Ashna Bhansali, John Walkington, and David Puelz

Frontiers in Epidemiology (2024)

[\[link to journal\]](#)

*BicliqueRT: A Software Package for Causal Testing and Experimental Design Under Interference*

Shunzhuang Huang, Panos Toulis, and David Puelz

In preparation (2023)

[\[link to github\]](#)

*A Graph-Theoretic Approach to Randomization Tests of Causal Effects Under General Interference*

David Puelz, Panos Toulis, Guillaume Basse, and Avi Feller

Journal of the Royal Statistical Society, Series B (2022)

[\[link to journal\]](#)

*Financial Literacy and Perceived Economic Outcomes*

David Puelz and Robert Puelz

Statistics and Public Policy (2022)

[\[link to journal\]](#)

*A Symmetric Prior for Multinomial Probit Models*

Lane Burgette, David Puelz, and P. Richard Hahn

Bayesian Analysis 16 (2021). No 3

[\[link to journal\]](#)

*Monotonic Effects of Characteristics on Returns*

Jared Fisher, David Puelz, and Carlos Carvalho

Annals of Applied Statistics (2020)

[\[link to journal\]](#)

*Portfolio Selection for Individual Passive Investing*

David Puelz, P. Richard Hahn, and Carlos Carvalho

Applied Stochastic Models in Business and Industry (2019)

[\[link to journal\]](#)

*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, Machine Learning, and Everything in Between  
New College of Florida  
Sarasota, FL — February 2024

Randomization, Machine Learning, and Everything in Between  
University of Austin  
Austin, TX — January 2024

Causal Machine Learning  
University of Texas at Austin — Texas Women in Economics invited speaker  
Austin, TX — October 2023

Causal Effect Testing under Interference  
University of Texas at Austin — Salem Center for Policy Causal Inference Seminar  
Austin, TX — May 2022

A Graph-Theoretic Approach to Randomization Tests of Causal Effects Under General Interference  
Society for Political Methodology Annual Meeting — NYU  
Virtual — July 2021

Is Machine Learning Useful for Modeling the Cross-Section of Returns?  
Statistical Methods in Finance Conference  
Virtual — June 2021

Randomization Tests of Causal Effects Under General Interference  
International Indian Statistical Association Annual Meeting  
Virtual — May 2021

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

## Teaching (UT Austin)

Introduction to Machine Learning — MSBA (full-time and working professionals) — 2021, 2022, 2023, 2024  
Policy Research Lab — Undergraduate — 2021, 2022, 2023, 2024  
Data Science for Business Applications — Undergraduate — 2023  
Data Science for Economics and Policy — Undergraduate — 2023  
Statistics for Executives — Executive MBA — 2023  
Machine Learning in Finance — PhD — 2022

## Honors

PolMeth Faculty Poster Award  
Society for Political Methodology Annual Conference — 2019

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: Journal of the American Statistical Association, Journal of the Royal Statistical Society, 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 - 2021.

## **Employment**

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