David Childers

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Citizenship: United States

Fields of Concentration:
- Econometrics
- Macroeconomics
- Computational Economics

Degrees:

Ph.D., Economics, Yale University, 2016
  Dissertation Title: *Computational Methods for Economic Models with Function-Valued States*
  Committee: Peter C.B. Phillips, Anthony A. Smith, Jr., Costas Arkolakis

M.Phil., Economics, Yale University, 2013

M.A., Economics, Yale University, 2011

B.S.F.S. International Economics *Summa Cum Laude* Georgetown University, 2009

Fellowships, Honors and Awards:
- University Dissertation Fellowship, Yale University 2014
- Kent T. Healy Fellowship, Yale University, 2013-2014
- Cowles Foundation Fellowship, 2009-2013
- Doctoral Fellowship, Yale University 2009-2015
- William F. Notz Medal, Georgetown University, 2009

Teaching:

Econometrics II (73-374) (Fall 2016-2020)
Econometrics I (PhD) (47-811) (Fall 2017-2020)
Computational Methods for Economics (47-805) (Spring 2018-2021)
Forecasting for Economics and Business (Spring 2019-2021)

Work Experience:

Research Assistant to David Atkin, Fall 2011
Research Assistant to Nancy Qian, Summer 2010

PhD Students Advised:

Eungsik Kim (committee member) (PhD 2019)
Wenting Yu (committee member) (PhD 2020)
Jiayi Li (committee member) (PhD 2020)
Bill Bednar (committee member) (PhD Expected 2021)
Xuege Zhang (committee member) (PhD Expected 2022)

Working Papers:

"Solution of Rational Expectations Models with Function Valued States" (Revise and Resubmit, Econometrica)

"Automated Solution of Heterogeneous Agent Models"

"Perturbation Methods for Incomplete Markets Economies" with Keshav Dogra

"Estimating Treatment Effects with Observed Confounders and Mediators" with Shantanu Gupta and Zachary Lipton

In Progress:

"Estimating Distributional Responses to Macroeconomic Shocks" with Ross Doppelt

"Solving Ill-Posed Function-Valued Rational Expectations Models"

"Differentiable State Space Models with Applications to Estimation using Hamiltonian Monte-Carlo" with Jesús Fernández-Villaverde, Jesse Perla, Chris Rackauckas, and Peifan Wu

"Causal Inference with Selective Revelation" with Shantanu Gupta and Zachary Lipton

Referee Service:

Journal of Econometrics, Journal of Applied Econometrics, Bulletin of Economic Research, Macroeconomic Dynamics, Operations Research, Econometrica, Management Science

Presentations:

2016: University of Illinois Urbana-Champaign, Carnegie Mellon University, UC San Diego, Chicago Fed Computational Conference, Society for Economic Dynamics, Stanford Institute for Theoretical Economics ‘Computational Methods for Dynamic Economies and Games’, University of Pennsylvania

2017: Indiana University, Federal Reserve Bank of New York

2018: Midwest Macro

2019: Society for Economic Dynamics, New York University, Boston University, Barcelona GSE Summer Forum Workshop in `Machine Learning for Economics’

2020: American Economic Association, University of British Columbia

2021: China International Conference on Macroeconomics, Society for Economic Dynamics

Languages:

English (native), Spanish, Mandarin (basic)