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ACADEMIC APPOINTMENTS

2023 –	Professor of Economics, University of Pennsylvania
2016 – 2023	Associate Professor of Economics, University of Pennsylvania
2013 – 2016	Janice & Julian Bers Assistant Professor in the Social Sciences, University of Pennsylvania
2010 – 2016	Assistant Professor of Economics, University of Pennsylvania
2009 – 2010	Lecturer of Economics, University of Pennsylvania
2019 Spring	Visiting Associate Professor of Economics, Yale University
2018 Fall	Visiting Associate Professor of Economics, Princeton University

EDUCATION

2010	Ph.D. in Economics, Yale University
2005	M.S. in Applied Economics, University of Wisconsin-Madison
2003	B.A. in Economics, Peking University, China

EDITORIAL EXPERIENCE

Co-Editor,	Econometric Theory, 2021-
Associate Editor,	Journal of Econometrics, 2019-2021, 2023-
Associate Editor,	Econometrics Journal, 2016-
Associate Editor,	Quantitative Economics, 2017-
Associate Editor,	Journal of Econometric Methods, 2022-
Associate Editor,	Econometric Reviews, 2020-2022
Associate Editor,	Journal of Business Economics and Statistics, 2018-2021
Associate Editor,	Econometric Theory, 2016-2021

HONORS AND AWARDS

2024	Fellow of Journal of Econometrics
2023	Fellow of International Association of Applied Econometrics
2022	Penn Faculty Fellow, University of Pennsylvania
2022, 2012	Irving Kravis Award for Outstanding Undergraduate Teaching, University of Pennsylvania
2021	Excellence in Refereeing Award, Review of Economic Studies
2013 – 2016	Janice and Julian Bers Chair in the Social Sciences, University of Pennsylvania
2011	Honorable Mention, Zellner Thesis Award, American Statistical Association
2008 – 2009	Carl Arvid Anderson Prize, Cowles Foundation for Research in Economics
2021 – 2024	Jacobs Levy Equity Management Center Grant, Wharton, University of Pennsylvania
2020	Research Opportunity Grant, School of Arts and Science, University of Pennsylvania

PLENARY TALKS AND PROFESSIONAL SERVICES

2024	Keynote Speaker, European Conference of the Econometric Community (EC ²) Conference, Amsterdam, the Netherlands
2024	Invited Speaker, International Symposium on Econometric Theory and Applications (SETA) Taipei, Taiwan
2023	Keynote Speaker, ESRC Invited Session, Bristol Econometric Study Group Conference Bristol, UK
2021	Plenary Speaker, Society of Financial Econometrics (SoFie) Annual Conference, San Diego
2019	Invited Speaker, Mentoring Workshop for Female Economists Asian Meeting of the Econometric Society, Xiamen, China
2016	Invited Lecturer, University of Konstanz, Konstanz, Germany
2012	Plenary Speaker, Statistical Inference in High-Dimensional Problems Workshop, Vienna, Austria
2024	Co-Chair of Program Committee, International Association of Applied Econometrics Conference
2024	Co-organizer, NBER-NSF Time Series Conference
2019	Co-organizer, Greater New York Metropolitan Area Econometrics Colloquium
2011	Co-organizer, Greater New York Metropolitan Area Econometrics Colloquium
2025	Program Committee, Econometric Society World Congress
2024	Program Committee, Econometric Society Asian Meeting
2024	Program Committee, Econometric Society North American Summer Meeting
2023	Program Committee, International Symposium on Econometric Theory and Applications
2023	Program Committee, Econometric Society European Meeting
2022	Program Committee, Econometric Society European Meeting
2022	Scientific Committee, International Association of Applied Econometrics Conference
2021	Program Committee, Econometric Society China Meeting
2021	Scientific Committee, International Association of Applied Econometrics Conference
2020	Scientific Committee, International Association of Applied Econometrics Conference
2019	Program Committee, EC ² Conference at Oxford University
2019	Scientific Committee, International Association of Applied Econometrics Conference
2017	Scientific Committee, International Association of Applied Econometrics Conference
2016	Program Committee, Econometric Society North American Summer Meeting
2016	Scientific Committee, International Association of Applied Econometrics Conference

PUBLISHED AND FORTHCOMING PAPERS

“Identifying Volatility Risk Price Through Leverage Effect”

Journal of Econometrics, 2025, 248 (with Eric Renault & Paul Sangrey).

“Macro-Finance Decoupling: Robust Evaluation of Macro Asset Pricing Models”

Econometrica, 2022, 90(2), 685-713 (with Winston Dou and Zhipeng Liao).

“Instrumental Variable Estimation of Structural VAR Models Robust to Possible Nonstationarity”

Econometric Theory, 2022, 38(5), 845-874 (with Xu Han and Atsushi Inoue)

“Generic Results for Establishing the Asymptotic Size of Confidence Intervals and Tests”

Journal of Econometrics, 2020, 218(2), 496-531 (with Donald W. K. Andrews and Patrik Guggenberger).

- “On Uniform Asymptotic Risk of Averaging GMM Estimators”
Quantitative Economics, 2019, 10(3), 931-979 (with Zhipeng Liao and Ruoyao Shi).
- “Shrinkage Estimation of High-Dimensional Factor Models with Structural Instabilities”
Review of Economic Studies, 2016, 83(4), 1511-1543 (with Zhipeng Liao and Frank Schorfheide).
- Comment on “In-sample Inference and Forecasting in Misspecified Factor Models”
Journal of Business and Economic Statistics, 2016, 34(3), 345-347 (with Bruce E. Hansen).
- “Robust Inference in Nonlinear Models with Mixed Identification Strength”
Journal of Econometrics, 2015, 189(1), 207-228.
- “Forecasting with Factor-Augmented Regression: A Frequentist Model Averaging Approach”
Journal of Econometrics, 2015, 186(2), 280-293 (with Bruce E. Hansen).
- “Select the Valid and Relevant Moments: An Information-Based LASSO for GMM with Many Moments”
Journal of Econometrics, 2015, 186(2), 443-464 (with Zhipeng Liao).
- “GMM Estimation and Uniform Subvector Inference with Possible Identification Failure”
Econometric Theory, 2014, 30(2), 287-333 (with Donald W. K. Andrews).
- “Maximum Likelihood Estimation and Uniform Inference with Sporadic Identification Failure”
Journal of Econometrics, 2013, 173(1), 36-56 (with Donald W. K. Andrews).
- “Estimation and Inference with Weak, Semi-strong, and Strong Identification”
Econometrica, 2012, 80(5), 2153-2211 (with Donald W. K. Andrews).
- “Cointegrating Rank Selection in Models with Time-Varying Variance”
Journal of Econometrics, 2012, 169(2), 155-165 (with Peter C. B. Phillips).
- “Semiparametric Cointegrating Rank Selection”
Econometrics Journal, 2009, 12(1), 83-104 (with Peter C. B. Phillips).

WORKING PAPERS

- “How to Weight in Moments Matching: A New Approach and Applications to Earnings Dynamics”
(with Alejandro Sanchez-Becerra & Andrew Shephard) Revise & Resubmit, *Review of Economic Studies*
- “Clustering for Multi-Dimensional Heterogeneity with an Application to Production Function Estimation”
(with Frank Schorfheide & Peng Shao), Revise & Resubmit, *Quantitative Economics*
- “Optimal Estimation of Two-way Effects under Limited Mobility”
(with Sheng Chao Ho & Frank Schorfheide)

SEMINAR, CONFERENCE, AND DISCUSSION

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| 2025 | Johns Hopkins University, National University of Singapore, Nanyang Technological University, Singapore National University, University of California-Berkeley, Vanderbilt University |
| 2024 | Boston University, Rutgers University, International Symposium on Econometric Theory and Applications (Academia Sinica, Taiwan), Washington University in St. Louis, University of California-Los Angeles, EC ² Conference (Amsterdam) |
| 2023 | London School of Economics and Political Science, North Carolina State University, University of Notre Dame, University College London, Bristol Econometrics Study Group, Interactions Conference: Bringing Together Econometrics and Applied Microeconomics (Northwestern) |

2022 University of Kansas, McMaster University, University of Wisconsin-Madison, University of Washington, Johns Hopkins University, University of Colorado-Boulder, Chow Institute (Xiamen), CIREQ Conference (Montreal), Women in Econometrics Conference (Toronto)

2021 University of Oxford, University of Pittsburg, Universitat Pompeu Fabra Barcelona, Singapore Management University, Syracuse University, Warwick-Bristol, SH3 Econometrics Conference, Statistics 2021 Canada, Dongbei Econometrics Workshop, Penn State-Cornell Econometrics and IO Conference

2020 University of Cambridge, Harvard-MIT, University of California-Riverside, Chamberlain Econometrics Seminar, Econometric Society North American Winter Meeting

2019 Cornell University, Simon Fraser University, Yale University, University of Montreal, Econometric Society Asian Meeting, Econometric Society China Meeting, Tsinghua Econometrics Conference, UCL-Vanderbilt Joint Conference

2018 Federal Reserve Bank of Boston, Princeton University, Rutgers University, A Celebration of Peter Phillips' Forty Years at Yale, Greater NY Metropolitan Area Econometrics Colloquium (Princeton)

2017 Northwestern University, New York University, University of Pittsburgh, University of Rochester, University of Toronto, University of British Columbia

2016 Academia Sinica, Chicago Booth, University of Konstanz, University of Maryland, North Carolina State University, National University of Singapore, Singapore Management University; Econometrics Mini-Conference (Iowa), North American Winter Meeting of the Econometric Society, Workshop on New Approaches to the Identification of Macroeconomic Models (Oxford)

2015 University of Amsterdam, University of Cambridge, Center for Monetary and Financial Studies (CEMFI), Chinese University of Hong Kong, Erasmus University Rotterdam, Georgetown University, Michigan State University, Ohio State University, University of Oxford, Rutgers University, University of Texas-Austin, Tilburg University, University California-Irvine, UCLA, University College London, University of Illinois Urbana-Champaign, University of Southern California, Vanderbilt, University of Virginia, Yale University; NBER-NSF CEME Conference on Inference in Nonstandard Problems (Cornell), Econometric Society World Congress (Montreal), International Association for Applied Econometrics Annual Conference (Macedonia), Frontiers of Theoretical Econometrics (Celebration of Donald Andrews' Sixtieth Birthday, Konstanz), NY Camp Econometrics (Syracuse), Vienna Workshop on High-Dimensional Time Series in Macroeconomics and Finance (Institute for Advanced Studies)

2014 Brown University, New York University, Penn State University, University of Illinois Urbana-Champaign, Yale University; CEME Conference on Inference in Nonstandard Problems (Princeton), 10th Symposium on Econometric Theory and Applications (Academia Sinica), North American Winter Meeting of the Econometric Society, Tsinghua Econometrics Conference

2013 University of Wisconsin-Madison, Yale University; CIREQ Time Series Conference (Montreal), NBER-NSF Summer Institute, NBER-NSF Time Series Conference (Federal Reserve Board), Tsinghua Econometrics Conference, Greater NY Metropolitan Area Econometrics Colloquium (Penn State)

2012 Brown University, Duke University, University of Indiana-Bloomington, University of Montreal, Rice University, Rutgers University, Texas A&M University; Canadian Econometric Study Group (Queens), CIREQ Time Series Conference, Junior Festival on New Developments in Microeconometrics (Northwestern), Greater NY Metropolitan Area Econometrics Colloquium

2011 Georgetown University, George Washington University, New York University, Stanford University, University of California-Berkeley, University of California-San Diego, University of California-Riverside, University of Southern California, Vanderbilt University

2010	Boston University, Columbia, Harvard-MIT, IUPUI, Northwestern University, Pennsylvania State University, Princeton University, Singapore National University, University of Montreal; CIREQ Time Series Conference, Econometric Society World Congress (SJTU), Greater NY Metropolitan Area Econometrics Colloquium (NYU). NBER-NSF Time Series Conference (Duke)
2009	Chicago Booth, Cornell University, Duke University, London School of Economics and Political Science, University of Michigan, New York University, Ohio State University, University of Oxford, University of British Columbia, University College London, University of Illinois Urbana-Champaign, University of Pennsylvania

TEACHING EXPERIENCE

Penn Economics 705/7300: Econometrics I	(1 st Year Ph.D. Course)	2011-
Penn Economics 712/8300: Topics in Econometrics	(2 nd Year Ph.D. Course)	2010-
Penn Economics 222: Microeconometrics	(Undergraduate Course)	2017
Penn Economics 104/2310: Econometrics	(Undergraduate Course)	2009-
Yale Economics 551: Econometrics II	(1 st Year Ph.D. Course)	2019
Princeton Economics 519: Topics in Microeconometrics	(2 nd Year Ph.D. Course)	2018

REFeree SERIVES

American Economic Review, Econometrica, Econometrics Journal, Econometric Theory, International Economic Review, Journal of the American Statistical Association, Journal of Applied Econometrics, Journal of Business and Economic Statistics, Journal of Econometrics, Journal of Money Credit and Banking, Journal of Monetary Economics, Journal of Political Economy, Oxford Bulletin of Economics and Statistics, Quantitative Economics, Review of Economics and Statistics, Review of Economic Studies,

National Science Foundation, USA
 Social Sciences and Humanities Research Council, Canada
 Swiss National Science Foundation, Switzerland
 Hong Kong Research Grant Council, Hong Kong
 Moderator, arXiv Econometrics domain

PH.D. DISSERTATION SUPERVISION

Thesis Committee Chair/Co-chair (All Ph.D. at Penn):

Oriol Gonzalez-Casasus (2025), Universitat Pompeu Fabra, Spain
 Sheng Chao Ho (2024), Singapore Management University, Singapore
 Di Tian (2023), University of Hong Kong (finance), Hong Kong
 Alejandro Sanchez Becerra (2021), Emory University
 Peng Shao (2020), Auburn University

Thesis Committee Member (All Ph.D. at Penn):

Boyuan Zhang (2023), Edvard Bakhitov (2022), Ruizhi Ma (2021), Paul Sangrey (2019), Irina Pimenova (2018), Ross Askanasi (2017), Jacob Warren (2017), Laura Liu (2016), Minchul Shin (2015)

External Thesis Evaluation:

Rutgers University; University of Montreal, Canada; University of Vienna, Austria

UNIVERSITY AND DEPARTMENT SERVICES

Personnel Committee Member, Penn Department of Economics, 2024
External Member, Faculty Recruiting Committee, University of Zurich, Switzerland, 2023-2025
Graduate Executive Committee Member, Penn Department of Economics, 2023
Graduate Admissions Committee Member, Penn Department of Economics, 2010-
Chair Search Committee Member, Penn Department of Economics, 2017, 2020
Teaching Committee Member, Penn Department of Economics, 2019, 2024
Graduate Examination Committee Member, Penn Department of Economics, 2009-
Undergraduate Honors Thesis Advisor, Penn Department of Economics, 2009-2010, 2015-2018
Associate Undergraduate Chair, Penn Department of Economics, 2011-2017
Diversity Search Committee Member, Penn Department of Economics, 2014