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## Zhongjun Qu

Professor of Economics  
Department of Economics  
Boston University

Office: (617) 358-5921  
E-mail: qu@bu.edu

### EDUCATION

Ph.D. in Economics, Boston University, May 2005  
M.A. in Political Economy, Boston University, 2003  
B.S. in Mathematics, Nankai University, Tianjin, China, 1998

### POSITIONS

2020-Present	Professor of Economics, Department of Economics, Boston University
2013-2020	Associate Professor, Department of Economics, Boston University
2007-2013	Assistant Professor, Department of Economics, Boston University
2005-2007	Assistant Professor, University of Illinois at Urbana-Champaign

### RESEARCH INTERESTS

Econometrics, Quantitative Macroeconomics, Empirical Finance

### REFEREED PUBLICATIONS

1. “Estimating State Price Densities Implied by American Options,” (with Guang Zhang), 2025, forthcoming, *Journal of Business & Economic Statistics*.
2. “QTE.RD: An R Package for Quantile Treatment Effects in Regression-Discontinuity Designs,” (with Jungmo Yoon), 2025, forthcoming, *The R Journal*.
3. “QR.break: An R Package for Structural Breaks in Quantile Regression,” (with Samuel Messer and Tatsushi Oka), *Journal of Econometric Methods*, 14 (2025), 21-34.
4. “Inference on Conditional Quantile Processes in Partially Linear Models with Applications to the Impact of Unemployment Benefits,” (with Jungmo Yoon and Pierre Perron), *Review of Economics and Statistics*, 106 (2024), 521-541.
5. “Using Arbitrary Precision Arithmetic to Sharpen Identification Analysis for DSGE Models,” (with Denis Tkachenko), *Journal of Applied Econometrics*, 38 (2023), 644-667.
6. “Sieve Estimation of Option-Implied State Price Density,” (with Junwen Lu), *Journal of Econometrics (Annals Issue: PI Day)*, 224 (2021), 88-112.
7. “Likelihood Ratio Based Tests for Regime Switching,” (with Fan Zhuo), *Review of Economic Studies*, 88 (2021), 937-968.

8. "Uniform Inference on Quantile Effects under Sharp Regression Discontinuity Designs," (with Jungmo Yoon), *Journal of Business and Economic Statistics*, 37 (2019), 625-647.
9. "A Composite Likelihood Framework for Analyzing Singular DSGE Models," *Review of Economics and Statistics*, 100 (2018), 916-932.
10. "Global Identification in DSGE Models Allowing for Indeterminacy," (with Denis Tkachenko), *Review of Economic Studies*, 84 (2017), 1306–1345.
11. "Nonparametric Estimation and Inference on Conditional Quantile Processes," (with Jungmo Yoon), *Journal of Econometrics*, 185 (2015), 1-19.
12. "M Tests with a New Normalization Matrix," (with Yi-Ting Chen), *Econometric Reviews*, 34 (2015), 617-652.
13. "Inference in DSGE Models with Possible Weak Identification," *Quantitative Economics*, 5 (2014), 457-494.
14. "A Stochastic Volatility Model with Random Level Shifts and its Applications to S&P 500 and NASDAQ Return Indices," (with Pierre Perron), *Econometrics Journal*, 16 (2013), 309-339.
15. "Frequency Domain Analysis of Medium Scale DSGE Models with Application to Smets and Wouters (2007)," (with Denis Tkachenko), *Advances in Econometrics (Volume 28, 2012)*, 319-385.  
This paper received the *Outstanding Author Contribution Award* at the Literati Network Awards for Excellence (2013).
16. "Identification and Frequency Domain Quasi-maximum Likelihood Estimation of Linearized Dynamic Stochastic General Equilibrium Models," (with Denis Tkachenko), *Quantitative Economics*, 3 (2012), 95-132. (Supplement: <http://qeconomics.org/supp/126/supplement.pdf>)
17. "A Test Against Spurious Long Memory," *Journal of Business and Economic Statistics*, 29 (2011), 423–438.
18. "Estimating Structural Changes in Regression Quantiles," (with Tatsushi Oka), *Journal of Econometrics*, 162 (2011), 248-267.
19. "Long-Memory and Level Shifts in the Volatility of Stock Market Return Indices," (with Pierre Perron), *Journal of Business and Economic Statistics*, 28 (2010), 275-290.
20. "Testing for Structural Change in Regression Quantiles," *Journal of Econometrics*, 148 (2008), 170-184.
21. "Searching for Cointegration in a Dynamic System," *Econometrics Journal*, 10 (2007), 580-604.  
*Reprinted in VIRTUAL ISSUE: Celebrating ten years of The Econometrics Journal.*
22. "Estimating and Testing Structural Changes in Multivariate Regressions," (with Pierre Perron), *Econometrica*, 75 (2007), 459-502. (Supplement: <http://www.econometricsociety.org/ecta/supmat/ECTA5733SUPP.pdf>)
23. "A Modified Information Criterion for Cointegration Tests based on a VAR Approximation," (with Pierre Perron), *Econometric Theory*, 23 (2007), 638-685.
24. "A Simple Modification to Improve the Finite Sample Properties of Ng and Perron's Unit Root Tests," (with Pierre Perron), *Economics Letters*, 94 (2007), 12-19.

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25. “Estimating Restricted Structural Change Models,” (with Pierre Perron), *Journal of Econometrics*, 134 (2006), 373- 399.

## **OTHER PUBLICATIONS**

1. “Introduction to the Themed Issue: Macroeconometrics,” *Journal of Econometrics*, 244 (2024), 105870.
2. “Introduction to Annals Issue: PI-Day,” (with Serena Ng and Timothy Vogelsang), *Journal of Econometrics*, 224 (2021), 1-2.

## **WORKING PAPERS**

1. “Fitting Dynamically Misspecified Models: An Optimal Transportation Approach,” with Jean-Jacques Forneron
2. “Prediction Intervals for Model Averaging,” with Wuendun Wang and Xiaomeng Zhang
3. “Targeted Testing of Dynamic Stochastic General Equilibrium Models,” with Denis Tkachenko
4. “Modeling Markov Regime Switching in High Dimensional Data,” with Anlong Qin

## **AWARDS AND HONORS**

1. Keynote speaker, The Netherlands Econometric Study Group Meeting, 2023
2. Fellow, International Association for Applied Econometrics, 2022
3. Fellow, *Journal of Econometrics*, 2021
4. Best Associate Editor Award, *Journal of Econometrics*, 2019
5. Keynote speaker, Workshop on Time Series Econometrics (Barcelona GSE Summer Forum, 2017)
6. Advisor of the Year, awarded by the Graduate Economics Association at Boston University, 2014
7. Honorable Mention for Arnold Zellner Thesis Award Competition, *Journal of Business and Economic Statistics*, 2006
8. The Economics Graduate Students’ Organization Award for Excellence in Teaching a Core Class, Department of Economics, University of Illinois at Urbana-Champaign, Spring 2006

## **PROFESSIONAL ACTIVITIES**

### **Co-Editor**

*Journal of Econometric Methods* (2022-now)

### **Associate Editor**

*Journal of Econometrics* (2019-now)

*Journal of Business and Economic Statistics* (2018-now)

*Journal of Time Series Analysis* (2019-now)

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Econometrics Journal (2012-2023), Journal of Econometric Methods (2018-2022)

### **Guest Co-editor**

Special Issue “Macroeconometrics” for *Journal of Econometrics*; published in 2024

Special Issue “Annals Issue: PI Day” for *Journal of Econometrics*; published in 2021

### **Referee**

Annals of Statistics, Communications in Statistics–Theory and Methods, Econometrica, Econometric Reviews, Econometric Theory, Econometrics Journal, Economics Letters, Empirical Economics, International Economic Review, International Regional Science Review, Journal of Applied Econometrics, Journal of Applied Statistics, Journal of Banking and Finance, Journal of Business and Economic Statistics, Journal of Economic Dynamics and Control, Journal of Econometric Methods, Journal of Econometrics, Journal of Economic Dynamics and Control, Journal of Financial Econometrics, Journal of Monetary Economics, Journal of Nonparametric Statistics, Journal of Statistical Software, Journal of the American Statistical Association, NSF, Nonlinear Analysis: Modeling and Control, Oxford Bulletin of Economics and Statistics, Quantitative Economics, Review of Economics and Statistics, The Review of Economic Studies, Studies in Nonlinear Dynamics and Econometrics, the Quarterly Review of Economics and Finance, TEST

### **Conference Committee**

Committee Chair, NBER-NSF Time Series Conference, 2022, Boston.

Scientific Committee Member, 4<sup>th</sup> International Association of Applied Econometrics, 2017, Sapporo

Scientific Committee Member, 3<sup>rd</sup> International Association of Applied Econometrics, 2016, Milan

Program Committee Member, Summer Meetings of the Econometric Society, 2009, Boston

## **SEMINARS AND CONFERENCE PRESENTATIONS**

“Fitting Dynamically Misspecified Models: An Optimal Transportation Approach” Manchester Econometrics Workshop (May 2025), VTSS Seminar (December 2024)

“Targeted Testing of Dynamic Stochastic Equilibrium Models,” Netherlands Econometrics Study Group Meeting (June 2023), Upenn (March 2023)

“Specification Testing of DSGE Models Allowing for Indeterminacy and Weak Identification,” Singapore Management University (May 2022)

“Inference on Conditional Quantile Processes in Partially Linear Models with Applications to the Impact of Unemployment Benefits,” CFE Conference (December 2022, Special Invited Session)

“Using Arbitrary Precision Arithmetic to Sharpen Identification Analysis for DSGE Models,” Indiana (October 2021), Notre Dame (April 2021), Rochester (April 2019), Carnegie Mellon (April 2019), Annual Meeting of the Southern Economic Society (November 2018), Frontiers in Econometrics

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- Conference (University of Connecticut, June 2018), Identification in Econometrics Conference (Vanderbilt, April 2018), Columbia (October 2017)
- “Sieve Estimation of Option-Implied State Price Density,” the Central Bank of Chile (January 2020), CIREQ-Concordia Econometrics Seminar (November 2019), Syracuse (October 2019), CEMMAP UCL/Vanderbilt Joint Conference (October 2019)
- “Frequency Domain Methods and DSGE Models,” short lecture at the Central Bank of Chile (January 2020)
- “Likelihood Ratio Based Tests for Regime Switching,” Workshop on Long-Range Dependence (Leibniz University, October 2018), Cemfi (May 2017), Barcelona GSE Summer Forum (June 2017), NBER-NSF Time Series Conference (September 2016), North American Wintering Meeting of the Econometric Society (January 2016), Brown (October 2014)
- “Uniform Inference on Quantile Effects under Sharp Regression Discontinuity Designs,” Iowa (March 2017)
- “Global Identification in DSGE Models Allowing for Indeterminacy,” NYU (November 2015), Carleton (November 2015), Renmin U (May 2015), Academia Sinica (June 2014), National Sun Yat-sen University (June 2014), MSU (April 2014), NBER Summer Institute (July 2013), Time Series Conference at Montreal (May 2013), Brandeis (March 2013), North American Winter Meeting of the Econometric Society (January 2013)
- “A Composite Likelihood Framework for Analyzing Singular DSGE models,” Johns Hopkins (May 2017), NBER Conference EFSF mid-year meeting (October 2015), Econometric Society World Congress (August 2015), Maryland (November 2013), Vanderbilt (October 2013)
- 2012 North American Winter Meeting of the Econometric Society, UC-San Diego, Yale, Brown, Boston College, Rutgers
- 2011 Queen’s University, North Carolina State University, Harvard-MIT metrics seminar, Summer Meeting of the Econometric Society, Columbia, BU-BC mini-conference
- 2010 North American Winter Meeting of the Econometric Society, NBER-NSF Time Series Conference, Duke (Young Economists Jamboree in Econometrics), Midwest Econometrics Group Meeting, EC2 meeting in Toulouse (Identifications in Econometrics)
- 2009 North American Winter Meeting of the Econometric Society, Summer Meeting of the Econometric Society, Academia Sinica, National Taiwan University, Time Series Conference at Montreal (III)
- 2008 MIT Econometrics Lunch, UIUC, Boston University
- 2007 Brown University, Université de Montréal, Hitotsubashi University
- 2006 Brown University, UIUC (Statistics Dept), Far Eastern Meeting of the Econometric Society

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## DEPARTMENT and UNIVERSITY SERVICE

Director of Graduate Studies, Economics Department, 2023-

Member of Graduate Academic Affairs Committee, Graduate School of Arts & Sciences, 2020-now

Chair of Department Junior Faculty Recruiting Committee, Economics Department, 2016-2019

## TEACHING

Spring 2025	Financial Econometrics (EC794, Ph.D.)
Fall 2024	Advanced Econometrics II (Part Two) (EC709, Ph.D.)
Spring 2023	Financial Econometrics (EC794, Ph.D.) Empirical Economic Analysis II (EC304, Undergraduate)
Fall 2022	Advanced Econometrics II (Part Two) (EC709, Ph.D.)
Spring 2022	Financial Econometrics (EC794, Ph.D.) Empirical Economic Analysis II (EC304, Undergraduate)
Fall 2007 ~	Financial Econometrics (EC794, Ph.D.)
Fall 2021	Empirical Economic Analysis II (EC304, Undergraduate) Introduction to Econometrics (EC414, Undergraduate) Advanced Econometrics I (Part Two) (EC708, Ph.D.) Advanced Econometrics II (Part One) (Ph.D.) Time Series Analysis (Part Two) (EC712, Ph.D.)
Fall 2005 ~	Econometric Analysis (Ph.D.)
Spring 2007 (UIUC)	Introduction to Econometrics (Undergraduate) Time Series Analysis (Ph.D.) Department of Economics, University of Illinois at Urbana Champaign

## PH.D. THESIS SUPERVISION

**Main Advisor** (*placement and dissertation title*):

Anlong Qin, Ph.D. Economics, 2022, Assistant Professor, Zhejiang Gongshang University. “*Essays on state-space and regime-switching models in a high-dimensional setting.*”

Guang Zhang, Ph.D. Economics, 2021, Assistant Professor, Hong Kong University of Science and Technology (Guangzhou Campus). “*Essays on nonlinear filtering with applications in finance.*”

Taosong Deng, Ph.D. Economics, 2021, Assistant Professor, Hunan University. “*Three Essays on Predictive Regression, Low-frequency Variation, and Dynamic Stochastic General Equilibrium Models.*”

Andres Sagner, Ph.D. Economics, 2018, *Central Bank of Chile*. “*Three Essays on Quantile Factor Analysis.*”

Yuan Tian, Ph.D., Economics, 2018, *Alibaba*. “*Econometric Analysis of Heterogeneity in Financial Markets Using Quantile Regressions.*”

Francois Guay, Ph.D. Economics, 2016, *Cornerstone Research*. “*Parameter Inference for Multivariate*

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*Stochastic Processes with Jumps.”*

Fan Zhuo, Ph.D., Economics, 2016, *Amazon*. “*Essays on Regime Switching and DSGE Models with Applications to U.S. Business Cycle.*”

Denis Tkachenko, Ph.D. Economics 2012, Assistant Professor, *National University of Singapore*.

“*Frequency Domain Analysis of DSGE and Stochastic Volatility Models.*”

Shinsuke Ikeda, Ph.D. Economics 2010, Assistant Professor, *Graduate Institute of Policy Studies*, Tokyo, Japan. “*Three Essays on Bias-corrected Kernel Methods for the Estimation of the Covariation of Security Prices.*”

### **Committee Member:**

Emilio Gonzalez Coya Sandoval, Ph.D. Economics 2023, Morgan Stanley

Mengmeng Li, Ph.D. Economics 2015, Ernst & Young

Aparna Dutta, Ph.D. Economics 2015, Bates and White LLC

Seong Yeon Chang, Ph.D. Economics 2014, Xiamen University, China

Jie Hou, Ph.D. Economics 2014, Capital University of Economics and Business, China

Wendong Shi, Ph.D. Economics 2013, Renmin University, Beijing, China

Jiawen Xu, Ph.D. Economics 2013, Shanghai University of Finance and Economics, China

Ye Li, Ph.D. Economics 2013, Moody’s Analytics, Philadelphia

Adam McCloskey, Ph.D. Economics 2011, Brown University

Linxia Ren, Ph.D. Economics 2011, SAS Institute Inc

Tatsushi Oka, Ph.D. Economics 2010, National University of Singapore

Yohei Yamamoto, Ph.D. Economics 2009, University of Alberta, School of Business

Jing Zhou, Ph.D. Economics 2008, BlackRock, Inc

Jungmo Yoon, Ph.D. Economics 2008, Claremont Mckenna College

Sungyong Park, Ph.D. Economics 2007, Chinese University of Hong Kong