

Charles Z. Zheng

Address

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Citizen of USA and Canada

Education

Ph.D., University of Minnesota, June 1999
BA, Lawrence University, June 1993

Academic Positions

Professor of Economics, University of Western Ontario, January 2013 - Present
Visiting Professor, Tepper School of Business, Carnegie Mellon University, Aug 2019 - July 2020
Visiting Research Professor, Lingnan University College, Sun Yat-Sen University, 2016 - 2018
Associate Professor of Economics, University of Western Ontario, 2010 - 2013
Associate Professor of Economics, Iowa State University, 2006 - 2010
Assistant Professor of Economics, Northwestern University, 1999 - 2006

Publications

- "Optimal Design for Redistributions among Endogenous Buyers and Sellers" (joint with Mingshi Kang),
Economic Theory, v75, 1141-1180 (2023)
- "Trilateral Escalation in the Dollar Auction" (joint with Fredrik Ødegaard),
International Journal of Game Theory, <https://doi.org/10.1007/s00182-022-00815-2>, 2022
- "Corrigendum to 'Core equivalence theorem with production' [J. Econ. Theory 137 (2007) 246–270]" (joint with David Turchick and Siyang Xiong), *Journal of Economic Theory*, v203, 105476, 2022
- "Bidding Collusion without Passive Updating," *Journal of Mathematical Economics*, v85, 70-77 (Dec. 2019)
- "Necessary and Sufficient Conditions for Peace: Implementability versus Security,"
Journal of Economic Theory, v180, 135-166 (March 2019)
- "Surplus Dissipating Equilibria in the Dollar Auction" (joint with Fredrik Ødegaard),
INFOR: Information System and Operational Research, 2019
- "Goethe's Secret Reserve Price," *International Journal of Economic Theory*, v12, n1, 41-48 (March 2016)
- "Jump Bidding and Overconcentration in Decentralized Simultaneous Ascending Auctions,"
Games and Economic Behavior, v76, n2, 648-664 (November 2012)
- "Collusion via Resale" (joint with Rod Garratt and Thomas Tröger),
Econometrica, v77, n4, 1095-1136 (July 2009, Articles)
- "The Default-Prone U.S. Toxic Asset Auction Plan," *Contributions of the B.E. Journal of Economic Analysis & Policy*, v9, n1, Article 21 (April 2009)
- "Auctions with Costly Information Acquisition" (joint with Jacques Crémer and Yossef Spiegel),
Economic Theory, v38, n1, 41-72 (January 2009)
- "Core Equivalence Theorem with Production" (joint with Siyang Xiong),
Journal of Economic Theory, v137, n1, 246-270 (November 2007)
- "Optimal Search Auctions" (joint with Jacques Crémer and Yossef Spiegel),
Journal of Economic Theory, v134, n1, 226-248 (May 2007)
- "Optimal Search Auctions with Correlated Bidder Types" (joint with Jacques Crémer and Yossef Spiegel),
Economics Letters, v93, n1, 94-100 (Oct. 2006)
- "Optimal Auction with Resale," *Econometrica*, v70, n6, 2197-2224 (2002, Articles)
- "High Bids and Broke Winners," *Journal of Economic Theory*, v100, 129-171 (2001)
- "Application of Mechanism Design to Electric Power Markets" (joint with C. Silva and B. Wollenberg),
IEEE Transaction on Power Systems, v16, n1, 1-8 (February 2001)

Working Papers

- "A General Condition to Characterize Reduced-Form Auctions," Working Paper, May 2023
"Unequal Peace" (joint with Ali Kamranzadeh), Working Paper, July 2022, Revise & Resubmit, *IER*

“Pareto Optimality of Allocating the Bad” (joint with Mingshi Kang), mimeo, December 2020
“The Optimal Degree of Centralization,” mimeo, November 2015
“Military Moral Hazard and the Fate of Empires,” mimeo, April 2015
“Existence of Monotone Equilibria in First-Price Auctions with Resale,” mimeo, June 2014

Research Support

SSHRC Insight Grant, 2015 - 2023, “Auctions in Dynamic Settings: Theory and Empirics”
(Co-applicant: Tim Conley), Social Science and Humanities Research Council of Canada
The Western Strategic Support, 2014 - 2015, “Auctions in Dynamic Settings: Theory and Empirics”
(Co-applicant: Tim Conley), University of Western Ontario
SSHRC Grant 410-2011-1749, 2011 - 2014, “Auctions Design with Financially Constrained Bidders,”
Social Science and Humanities Research Council of Canada
NSF Grant SES-0214471, 2002 - 2006, "Auction Design with Resale," National Science Foundation

Editorial Duties

2018 - 2021 Co-Editor, *Canadian Journal of Economics*
2013 - Associate Editor, *Economics Letters*

Refereeing

Program Committee Member:
Econometric Society World Congress 2020; Econometric Society Summer Meeting (N. America) 2021

Referee:

American Economic Journal: Microeconomics, American Economic Review, Applied Economics Research Bulletin, Econometrica, Economic Theory, European Economic Review, Games and Economic Behavior, International Journal of Economic Theory, International Journal of Industrial Organization, Israel Science Foundation, Journal of Behavioral and Experimental Economics, Journal of Economic Behavior and Organization, Journal of Economic Theory, Journal of European Economic Association, Journal of Industrial Economics, Journal of Institutional and Theoretical Economics, Journal of Mathematical Economics, Journal of Political Economy, Journal of Public Economic Theory, Management Science, Mathematics of Operations Research, National Science Foundation, Quantitative Economics, RAND Journal of Economics, Review of Economic Studies, SSHR Council of Canada, The B.E. Journal of Theoretical Economics, Theoretical Economics

Recent Conference Presentations

Midwest Theory Conference, Notre Dame, Oct 2022
Midwest Theory Conference, East Lansing (in person), Oct 2021
Econometric Society World Congress, Online, Summer 2020
Virtual Market Design Seminar: Discussant, Fall 2020
North American Econometric Society Meeting, Seattle, Summer 2019
Canadian Economic Theory Conference, Montréal, Summer 2019
North American Econometric Society Meeting, Atlanta, January 2019
GAMES 2016: Fifth Congress of the Game Theory Society, Maastricht, Summer 2016
North American Econometric Society Meeting, Philadelphia, Summer 2016
World Congress of the Econometric Society, Montréal, Summer 2015
13th SAET Conference on Current Trends in Economics, Paris, Summer 2013
North American Econometric Society Meeting, San Diego, January 2013
GAMES 2012: Fourth Congress of the Game Theory Society, Istanbul, Summer 2012
North American Econometric Society Meeting, Evanston, Summer 2012
Canadian Economic Theory Conference, Vancouver, Summer 2012
Canadian Economic Theory Conference, Vancouver, Summer 2011
North American Econometric Society Meeting, St. Louis, Summer 2011

Invited Lectures

Short PhD course in auction theory, Lingnan University College, Sun Yat-Sen University, April 2017
Mini-course in microeconomics, International Summer School, Shanghai Jiaotong University, July 2013

Invited/Sponsored Presentations

2022 NBER/CEME Decentralization Conference (Spring), University of Michigan, Ann Arbor
2019 Pennsylvania State University (Fall), University of California at Riverside (Fall),

- Ryerson University (Spring), City University of Hong Kong (Spring), Hong Kong Baptist University (Spring)
- 2018 University of British Columbia (Spring), University of Montréal (Spring)
- 2017 NSF/NBER/CEME Decentralization Conference (U Michigan, Spring)
National University of Singapore (Summer), Singapore Management University (Summer)
- 2016 NSF/NBER/CEME Conference on Mathematical Economics (Johns Hopkins U, Fall)
Michigan State University, MI (Fall), Lingnan University College, China (Fall)
- 2015 Sun Yat-Sen University, China (Fall), McGill University (Spring), Hong Kong University (Spring)
The Chinese University of Hong Kong (Spring), Peking University HSBC Business School (Spring)
- 2014 University of York (Fall), University of Essex (Fall), University of Bristol (Fall),
London School of Economics (Fall), University of Mannheim (Fall), Arizona State University (Fall)
California Institute of Technology (Spring), University of Southern California (Spring)
University of California at LA (Spring)
- 2013 University of Zürich (Fall)
- 2012 University of Guelph, “Workshop on Information and Incentives” (Fall)
Fudan University, China, “Economic Dynamics Workshop” (Summer)
University of Exeter, “Contests, Mechanisms and Experiments Conference” (Spring)
- 2011 Syracuse University (Fall), Hong Kong University of Science and Technology (Fall)
University of Waterloo (Fall), University of Rochester (Wallis visitor; Spring)
McGill University (Spring), University of Guelph (Spring)
- 2010 University of Toronto (Fall), McMaster University (Fall)
Queens University (Fall), Rice University (Spring)
- 2009 University of Maryland (Fall), Rutgers University (Fall), Southern Methodist University (Fall)
- 2008 University of Western Ontario (Fall)
Workshop on Leadership, Altruism, and Social Organization (Singapore, Summer)
University of Melbourne (Spring)
- 2007 Summer Microeconomics Seminars (University of Hong Kong, Summer)
University of California at Santa Barbara (Spring)
- 2006 NBER/NSF/CEME Conference on General Equilibrium Theory (U. of Kansas, Fall)
Iowa State University (Spring), University of Missouri (Spring), University of Toronto (Winter)
Annual Meeting of ASSA (Invited Session: Information Acquisition; Boston, Winter)
- 2005 NSF/CEME Mathematical Economics Conference (UC-Berkeley, Fall)
NSF/NBER Decentralization Conference (Invited; Urbana-Champaign, Spring)
Ohio State University (Spring), University of California at Santa Barbara (Spring)
University of Western Ontario (Spring)
- 2004 DIMACS Workshop on Computational Issues in Auction Design (Rutgers, Fall)
3rd Annual Duke/Northwestern/Texas IO Theory Conference (Duke, Fall)
University of Rochester (Fall)
- 2003 Harvard U and MIT (Fall), University of Minnesota (Fall), University of Toronto (Fall)
NSF General Equilibrium Conference (Washington U, St. Louis, Spring)
- 2002 SUNY-Albany (Spring)
- 2001 University of Chicago-GSB (Fall), Rutgers University (Fall), University of Arizona (Fall)
- 2000 University of Wisconsin-Madison (Fall)
NSF/NBER/IBM Decentralization Conference (T.J. Watson Research Center, IBM, Fall)
Notre Dame University (Business School, Fall), University of Oklahoma (Spring)

Courses Taught

For PhD students

- Math for Economists for 1st-year graduate students (Tepper)
- Theory of Contracts for 2nd-year graduate students (Tepper)
- Microeconomics II for 1st-year graduate students (ECON 9602B)
- Game Theory 2 - Auction theory and mechanism design (ECON 9612B)
- Game Theory for 2nd-year graduate students (ECON 618)
- Theoretical Industrial Organization (ECON 615)
- Economics of Information (ECON 605)
- General Equilibrium Theory (ECON D10-2; ECON 603)

For undergraduate students

- Intermediate Microeconomics 1 (Honors course; ECON 2260A)

Intermediate Microeconomics (ECON 301)
Introduction to Game Theory (ECON C80)

Service

Graduate Program Director, 2021-2022
Graduate Program Co-Director, 2018-2019

Advising

University of Western Ontario
Nick Bedard (Placement: U Zürich), Xun Chen, Peter Foltin (Placement: U Toronto),
Ali Kamranzadeh (Placement: Koç U), Mingshi Kang (Placement: JiNan U), Henk Schouten
(Placement: Uppsala U), Kun Zhu
Iowa State University
YouZhi Yang (dissertation committee member), Andrew Dust (senior thesis supervisor)
Northwestern University
Julian Romero (senior thesis advisor)

Honors and Awards

Professor of the Year (Voted by Economics Graduate Students), 2020 - 2021
Professor of the Year (Voted by Economics Undergraduates), 2017 - 2018
Fellow, The Christopher J. Grimes Faculty Fellowship in Microeconomic Theory,
University of Western Ontario, 2010 - 2026
Fellow, Graduate School Dissertation Fellowship, University of Minnesota, 1998 - 1999
Distinguished Instructor, University of Minnesota, 1996-1997
Scholar, The Henry Merritt Wriston Scholarship Award, Lawrence University, 1991 - 1993
Phi Beta Kappa, Lawrence University, 1993