HANZHE ZHANG

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CURRENT AND PAST POSITIONS

Assistant Professor, Department of Economics, Michigan State University, 08/2015–present.
  Affiliate, Asian Studies Center.
  Affiliate, Diversity Research Network.
  Affiliate, Ecology, Evolution, and Behavior Program, College of Natural Science.
  Affiliate, Evolution and Future of Work Research Initiative, College of Social Science.
Affiliate, Human Capital and Economic Opportunity Working Group, University of Chicago, 05/2016–present.
  Inaugural Summer Scholar-in-Residence, 05/2016–08/2016.
Research Intern, Microsoft Research New England, 06/2012–09/2012.

RESEARCH AND TEACHING INTERESTS

Applied Microeconomic Theory: Matching Theory (Labor Economics and Family Economics) and Game Theory (Auctions, Bargaining, and Evolution).

PERSONAL INFORMATION

Born on February 17, 1990 in Tianjin, China; American and Canadian permanent resident.

EDUCATION

PhD Economics, University of Chicago, 09/2010–06/2015.
  Thesis: "Essays in matching, auctions, and evolution" under Gary Becker (co-advisor), Phil Reny (co-advisor), Pierre-André Chiappori, Scott Kominers, and Hugo Sonnenschein.

MA Math, BA Math with distinction, BA Economics with distinction (Shanbaum Prize for best senior), minor in Wharton Statistics, University of Pennsylvania, *summa cum laude*, *Phi Beta Kappa*, 09/2007–05/2010.
  MA Math Thesis: "Exposition of two-player zero-sum poker models" under Robin Pemantle (advisor) and Herman Gluck. (Class of 1880 Prize for first place in freshman math competition)
  BA Economics Honors Thesis: "Deriving Valuations from Bidding Behaviors: British Third Generation Auction in 2000" under Kenneth Wolpin. (Lawrence Klein Prize for best undergraduate thesis)

HONORS

Paul Van Arsdell Best Paper Award in Corporate Finance, Midwest Finance Association, 2020.
Best Paper Award in Markets and Institutions, Eastern Finance Association, 2019.
Yahoo! Key Scientific Challenges Award, 2012. (one of thirty worldwide)
Frank H. Knight Fellowship, University of Chicago, 2010-2015.
Lawrence Klein Prize for best undergraduate economics thesis, University of Pennsylvania, 2010.
Shanbaum Prize for best undergraduate economics student, University of Pennsylvania, 2010.
Class of 1880 Prize, first place in freshman math competition, University of Pennsylvania, 2008.

GRANTS

Amazon Research Awards, "Predicting successful scientific collaborations," PI, 12/2022. ($87,500).
National Science Foundation, Future of Work at the Human-Technology Frontier, co-PI (with PI Sinem Mollaoglu & co-PIs Richard DeShon, Kenneth Frank, & Jiliang Tang), "Intelligent social network interventions to augment human cognition for bolstered interdisciplinary interactions in project teams," 09/2019–08/2023. ($1,439,993)
MSU Asian Studies Center Dr. Delia Koo Faculty Endowment Award, PI, 03/2022–03/2024. ($4,000)
MSU Diversity Research Network Launch Awards Program, PI, 11/2021–11/2022. ($5,000)
MSU First Generation Students Initiative, PI, 09/2021–05/2022. ($4,000)
MSU College of Social Science Faculty Initiatives Fund, PI, 05/2021–12/2022. ($5,332)
MSU Provost Undergraduate Research Initiative, PI, 05/2016–05/2023. (cumulatively $30,500)
Econometric Society World Congress Travel Grant, 2015.
Institute for Humane Studies Hayek Fund, 2015.
The State of Sao Paulo Research Foundation Travel Grant, 2015.
University of Chicago Division of the Social Sciences Travel Grant, 2015.
University of Chicago Division of the Social Sciences Summer Grant, 2014.
Women and Leadership Archives Summer Research Grant, 2014.
Yahoo! Key Scientific Challenges Research Grant, 2012.
University of Chicago Frank H. Knight Fellowship, 2010-2015.

RESEARCH

Note: Authors are equally contributing first authors and ordered alphabetically, unless marked by an asterik (*).

Working Papers

23. Profit versus sustainability in bike-sharing (with Huiyi Litan, Ke Rong, Youran Wu, Danxia Xie, and Dong Zhao), *Sustainable Cities and Society*, revise and resubmit, December 2022.

22. Marital preferences and stable matching in cultural evolution (with Victor Hiller and Jiabin Wu), *Journal of Economic Theory*, reject and resubmit, December 2022.

21. Pay it forward: Theory and experiment (with Amanda Chuan), December 2022.

20. Borrowing stigma and lending-of-last-resort policies (with Yunzhi Hu), September 2022.

19. Reputational bargaining with ultimatum opportunities (with Mehmet Ekmekci), *Review of Economic Studies*, revise and resubmit, June 2022.

18. Decentralized matching with transfers: Experimental and noncooperative analyses (with Simin He and Jiabin Wu), *American Economic Journal: Microeconomics*, reject and resubmit, May 2022.

Peer-Reviewed Papers and Conference Proceedings (c)

17. A marriage-market perspective on risk-taking and career choices (with Ben Zou), *European Economic Review*, accepted, December 2022.

16. Assortative mating on blood type: Evidence from one million Chinese pregnancies (with Yao Hou, Ke Tang, Jingyuan Wang, and Danxia Xie), *Proceedings of the National Academy of Sciences*, 119, 51, e2209643119, December 2022.

15. Decision model to optimize long-term subsidy strategy for green building promotion (Yongsheng Jiang, Tao Hu, Dong Zhao, Bingsheng Liu, Hanzhe Zhang, Yunjia Zhang, and Zihao Xu)*, *Sustainable Cities and Society*, 86, 104126, November 2022.

14. Polarization, antipathy, and political activism (with Jiabin Wu), *Economic Inquiry*, lead article, 60(3), 1005–1017, July 2022.

13. Project team collaborations during time of disruptions: Transaction costs, knowledge flows, and social network theory perspective (Hasan Gokberk Bayhan, Sinem Mollaoglu, Hanzhe Zhang, and Kenneth Frank)*, (c) *Construction Research Congress*, 1012–1023, March 2022.

12. Prices versus auctions in large markets, *Economic Theory*, 72(4), 1297–1337, November 2021.

11. Preference evolution in different matching markets (with Jiabin Wu), *European Economic Review*, 137, 103804, August 2021.

10. Tractable cubic cost functions for teaching microeconomics (with Scott Swinton), *Applied Economics Teaching Resources*, 3(2), 19–25, June 2021.

9. An investment-and-marriage model with differential fecundity: On the college gender gap, *Journal of Political Economy*, 129(5), 1464–1486, May 2021.

8. The optimal sequence of prices and auctions, *European Economic Review*, 133, 103681, April 2021.

7. An evolutionary justification for overconfidence (with Kim Gannon), *Economics Bulletin*, 40(3), 2494–2504, September 2020.

6. Pre-matching gambles, *Games and Economic Behavior*, 121, 76–89, May 2020.

5. The optimal sequence of prices and auctions (extended abstract), (c) *Proceedings of the 3rd Conference on Auctions, Market Mechanisms and Their Applications*, 36, August 2015.

4. To risk or not to risk? Improving financial risk taking of older adults by online social information (Jason Chen Zhao, Wai-Tat Fu, Hanzhe Zhang, Shengdong Zhao, and Henry Been-Lirn Duh)*, (c) *Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work and Social Computing*, 95–104, March 2015.

3. Evolutionary justifications for non-Bayesian beliefs, *Economics Letters*, 121, 198–201, November 2013.

2. Two-player zero-sum poker models with one and two rounds of betting, *Penn Science*, 9(1), 27–30, Fall 2010.

1. Cohort profile: The China Jintan child cohort study (Jianghong Liu, Linda McCauley, Yang Zhao, Hanzhe Zhang, Jennifer Pinto-Martin, and Jintan cohort study group)*, *International Journal of Epidemiology*, 39(3), 668–674, June 2010.

Seminar and Conference Presentations

University of Chicago, Lifecycle Working Group, Chicago, Illinois, June 2023.
Midwest Economics Association and Society of Labor Economists Joint Session, Cleveland, Ohio, March 2023.
Arizona State University, Phoenix, Arizona, March 2023.
Australian National University, May 2022 (virtual).
Midwest Theory Conference, Purdue University, West Lafayette, Indiana, April 2022.
Midwest Theory Conference, Michigan State University, East Lansing, Michigan, October 2021.
The Sixth World Congress of the Game Theory Society, July 2021 (virtual).
Tsinghua University, School of Social Sciences, Institute of Economics, Chen Daisun Lecture, April 2021 (virtual).
Econometric Society World Congress, August 2020 (virtual).
Canadian Economic Theory Conference, May 2020 (virtual).
University of Michigan H2D2 Research Day, March 2020 (virtual).
American Economic Association Annual Meeting, San Diego, California, January 2020.
Presidential Session, Southern Economic Association Annual Meeting, Fort Lauderdale, Florida, November 2019.
Midwest Macroeconomics Meeting, East Lansing, Michigan, November 2019.
Midwest Theory Conference, Washington University in St. Louis, St. Louis, Missouri, October 2019.
University of Texas at Austin, Theory Seminar, Austin, Texas, September 2019.
Stony Brook Game Theory Festival, Stony Brook, New York, July 2019.
CESIfo Summer Institute: Gender in the Developed and Developing World, Venice, Italy, June 2019.
Johns Hopkins Carey Business School, Quantitative and Behavioral Economics Seminar, November 2018.
Southern Economic Association Annual Meeting, Washington DC, November 2018.
Midwest Theory Conference, Vanderbilt University, Nashville, Tennessee, October 2018.
University of Oregon, Departmental Seminar, September 2018.
University of Michigan H2D2 Research Day, Ann Arbor, Michigan, April 2018.
Midwest Economics Association and Society of Labor Economists Joint Session, Evanston, IL, March 2018.
Cornell University, Joint Labor Economics and Public Economics Seminar, November 2017.
Illinois Economic Association Annual Meeting, Chicago, Illinois, October 2017.
UM-MSU-UWO Labor Day Conference, University of Western Ontario, London, Canada, May 2017.
Population Association of America Annual Meeting, Chicago, Illinois, April 2017.
University of Nebraska at Lincoln, Departmental Seminar, March 2017.
University of Michigan, Theory Seminar, December 2016.
Midwest Theory Conference, Purdue University, West Lafayette, Indiana, December 2016.
Boston College, Theory Seminar, April 2016.
Econometric Society European Winter Meeting, Milan, Italy, December 2015.
University of Michigan H2D2 Research Day, Ann Arbor, Michigan, December 2015.
McMaster University, Departmental Seminar, September 2015.
Econometric Society World Congress, Montreal, Canada, August 2015.
Midwest Theory Conference, Ohio State University, Columbus, Ohio, April 2015.
Michigan State University, Departmental Seminar, January 2015.
Queen's University, Departmental Seminar, January 2015.
Drexel University, Departmental Seminar, January 2015.
American Economic Association Annual Meeting, Boston, Massachusetts, January 2015.
University of Wisconsin at Whitewater, November 2014.
Illinois Economic Association Annual Meeting, Chicago, Illinois, October 2014.
Chicago-Northwestern Family Economics Day, Chicago, Illinois, September 2014.
Fields Institute Optimal Transportation and Equilibrium in Economics, Toronto, Canada, September 2014.
Stony Brook Game Theory Conference, Stony Brook, New York, July 2014.
Midwest Theory, Indiana University-Purdue University Indianapolis, Indianapolis, Indiana, April 2014.
American Economic Association Annual Meeting, San Diego, California, January 2014.
Chicago-Northwestern Market Design Workshop, Chicago, Illinois, October 2013.
Stony Brook Game Theory Conference, Stony Brook, New York, July 2013.
Econometric Society North American Winter Meeting, San Diego, California, January 2013.
Midwest Theory Conference, Washington University in St. Louis, St. Louis, Missouri, September 2012.
Stony Brook Game Theory Festival, Stony Brook, New York, July 2012.

First Workshop on Midwest Control and Game Theory, Urbana-Champaign, Illinois, April 2012.

Refereeing Activities

<u>Journals</u>: *American Economic Journal: Microeconomics*; *American Economic Review*; *American Economic Review: Insights*; *American Mathematical Monthly*; *China Economic Review*; *Economic Modelling*; *Economic Theory*; *Economics of Education Review*; *Frontiers in Robotics and AI*; *Frontiers in Sociology*; *Games*; *Games and Economic Behavior*; *Information Systems Research*; *International Journal of Economic Theory*; *Journal of Economic Behavior and Organization*; *Journal of Economic Psychology*; *Journal of Economic Theory*; *Journal of Economics and Management Strategy*; *Journal of Evolutionary Economics*; *Journal of Human Resources*; *Journal of Political Economy*; *Journal of Public Economic Theory*; *Journal of Systems Science and Systems Engineering*; *Oxford Economic Papers*; *Quantitative Economics*; *Research on Aging*; *Theoretical Economics*

<u>Conference Proceedings</u>: Construction Research Congress (CRC); Neural Information Processing Systems (NIPS); Computer Supported Cooperative Work and Social Computing (CSCW)

<u>Books</u>: McGraw Hill, Open Textbook Network, W. W. Norton & Company

<u>Grants</u>: National Science Foundation (2020, 2021, 2022, 2023)

TEACHING

Courses at MSU

EC950–951 Research Seminars Advanced Topics (graduate), F2016–S2017, F2021–S2022, F2022–S2023.

EC911 Strategic Behavior in Economic Environment (graduate), F2023.

EC812B Microeconomics II (graduate), S2018, S2019, S2020, S2021, S2022. S2023, S2024.

EC401 Advanced Microeconomics (undergraduate), S2017, S2018.

EC301 Intermediate Microeconomics (undergraduate), F2015, S2017, S2018, S2019, S2020, F2023.

UGS200H Honors Research Seminar: Can Machine Learning Enhance Team Performance?, F2022–S2023.

Guest Lectures

WRA291 Academic Writing for Chinese-Speaking Students (undergraduate), Xinqiang Li, F2022. (mentor)

EC911 Strategic Behavior in Economic Environment (graduate), Jon Eguia, MSU, F2016, S2019, S2021.

EC880 Labor Economics I (graduate), Ben Zou, MSU, Spring 2016, Fall 2016.

EC835 Public Expenditures (graduate), Stacy Dickert-Conlin, MSU, Fall 2016.

EC207 Honors Game Theory (undergraduate), Hugo Sonnenschein, UChicago, Fall 2012, Fall 2013.

EC244 Micro Theory in a Math Mode (undergraduate), Hugo Sonnenschein, UChicago, Fall 2012.

Teaching Assistant

BUSF421 Game Theory (MBA), Emir Kamenica, UChicago, Spring 2014.

ECON207 Honors Game Theory (undergraduate), Hugo Sonnenschein, UChicago, Fall 2012, Fall 2013.

ECON244 Micro Theory in a Math Mode (undergraduate), Hugo Sonnenschein, UChicago, Fall 2012.

ECON201 Honors Elements of Economic Analysis II (undergraduate), Glen Weyl, UChicago, Fall 2012.

ECON208 Theory of Auctions (undergraduate), Philip Reny, UChicago, Winter 2012.

SERVICE

PhD Dissertation Committee

Hasan Gokberk Bayhan, committee member, construction management, 2020–present.

Xu Dong, committee member, 2019–present.

Wenjia Cao, committee member, 2019–present. (Red Cedar award for best third-year paper)

Katherine Zhou, committee member, 2018–present. (Red Cedar award for best third-year paper)

Pallavi Pal, committee member, 2014–2020. (Placement: Stevens Institute of Technology Assistant Professor)

Master's Thesis Committee

Arnav Jain, construction management, expected June 2023.

Venkataram Chebiyyam, IISER Pune, India, expected December 2023.

Graduate Mentoring

Zijian Qi, Red Cedar third-year paper committee member, 2019.

Kaidi Wu, Directed Research Fellowship, Summer 2018.

Chris Fowler, Directed Research Fellowship, Summer 2017.

Quinton Baker, Directed Research Fellowship, Summer 2016.

Undergraduate Mentoring at MSU

Rainy Jain, Provost Undergraduate Research Initiative, F2022–present.

Nadav Langberg, Econ Scholars and Provost Undergraduate Research Initiative, F2022.

Meital Lurie, Honors College Professorial Assistantship, F2022–present.

Quang Nguyen, Honors College Professorial Assistantship, F2022–present.

Jay Stansberry, Provost Undergraduate Research Initiative, F2022–present.

Calder Moore, Provost Undergraduate Research Initiative, Su2022–present.

Nick Balesky, Econ Scholars, F2021–S2023.

Matt DiRisio, Honors College Professorial Assistantship & PURI, F2021–present. (MSU CS master's)

Leyna Gatti, Honors College Professorial Assistantship, F2021–S2022.

Lian Martin, First Generation Students Initiative, F2021–Su2022.

Jack Metty, Provost Undergraduate Research Initiative, F2021–present.

Sarah Pilewski, Provost Undergraduate Research Initiative, F2021–Su2022.

Conner Roy, Honors College Professorial Assistantship, F2021–S2022.

Tanner Thering, Provost Undergraduate Research Initiative, F2021–S2022. (Boston Fed RA)

Archan Tulpule, Honors College Professorial Assistantship program, F2021–present.

Junheng Yue, First Generation Students Initiative, F2021–S2022. (Wake Forest business analytics master's)

Alexander Fos, Provost Undergraduate Research Initiative, Su2021. (Wisconsin economics master's)

Evan Seyhun, Provost Undergraduate Research Initiative, Su2021.

Nicholas Butler, Honors College Professorial Assistantship, F2020–F2021.

Josie Pelton, Econ Scholars, F2020–S2022.

Babur Kocaoglu, independent research, S2020. (NY Fed RA)

Ethan Pritchard, Honors College Professorial Assistantship, F2019–present.

Jack Mueller, Econ Scholars and Honors College Professorial Assistantship, F2018–S2021. (SF Fed RA)

Lauren Nicole Schwartz, Econ Scholars, F2018–S2020. (MSU marketing research master's)

Hanshi Zuo, Honors College Professorial Assistantship, F2018–S2020. (MSU CS master's)

Nicholas Anderson, Honors College Professorial Assistantship, F2017–S2018.

Alexis Hollowell, Econ Scholars, F2017–S2019. (MSU human resources and labor relations master's)

Whitney Zhou, Econ Scholars and Provost Undergraduate Research Initiative, F2016–S2019.

Jacob Schmitter, Honors College Professorial Assistantship, F2016–S2017.

Kim Gannon, Dean's Assistantship and PURI, Su2016–S2017. (J-PAL RA; Yale PhD)

Mentoring outside MSU

Wenbao Dai, University of Minnesota, June 2022–present.

Grace Chang Xu, Massachusetts Institute of Technology, MSU ACRES NSF REU, Su2022.

Aylin Garcia, University of Texas at El Paso, MSU SROP, Su2022.

Tran Nguyen-Phuong, Tulane, MSU SROP, Su2021.

Shuman Zhang, University of Minnesota, May 2021–present. (New York University master in 2021)

Peiyi Jin, SWUFE, April 2019–Summer 2020. (National University of Singapore economics PhD in 2020)

Rohini Das, Jadavpur University, Summer 2019. (Alberta Machine Learning Institute)

Suo Shi, University of Wisconsin, Summer 2019. (Cambridge economics MPhil in 2019)

Yue Li, Nankai University, Summer 2018–Spring 2019. (Oxford economics MPhil in 2019)

Dongming Yu, University of Michigan, August 2017–August 2018. (MSU economics PhD in 2018)

Eileen Fang, Peking University, Summer 2016. (USC economics PhD in 2017)

Organization

Co-founder (with Ce Liu), Theory Reading Group, Michigan State University, 09/2019–present.

Organizer, Theory/Macro Brown Bag Seminar, Michigan State University, 09/2015–present.

Organizer, Theory Seminar, Michigan State University, 09/2016–05/2017, 09/2021–05/2023.

Co-founder (with James Heckman), Family Game Theory Reading Group, University of Chicago, 02/2016–09/2016.

Organizer, Economic Theory Working Group, University of Chicago, 01/2013–06/2015.

Co-founder (with Danxia Xie), Chicago Chinese Social Research Group, 09/2013–06/2015.

Co-founder (with Sam Hwang), Market Design Reading Group, University of Chicago, 04/2012–06/2015.

Committee

Member, Planning Committee for the Evolution and Future of Work Convening, Fall 2022–Spring 2024.

Mentor, MSU Institute for Cyber-Enabled Research Advanced Computational REU, Summer 2022, Summer 2023.
Judge, MSU Alliances for Graduate Education and the Professoriate (AGEP) Conference, 11/2021.
Mentor, MSU Summer Research Opportunity Program for underrepresented students, Su2021, Su2022.
Chair, Qualifying Exam Committee, Michigan State University, 05/2020, 08/2021, 05/2022.
Member, Qualifying Exam Committee, Michigan State University, 08/2016, 05/2018, 08/2019.
Member, Graduate Admissions and Awards Committee, Michigan State University, 09/2020–05/2022.
Member, Extended Advisory Committee, Michigan State University, 06/2019.
Alumni interviewer for undergraduate admissions, University of Pennsylvania, 09/2018–present.
Member, Departmental Computer Committee, Michigan State University, 09/2016–05/2017, 09/2022–05/2023.
Member, Advisory Committee, Michigan State University, 09/2015–08/2016.
Member, Kravis Award Committee for Outstanding Undergraduate Teaching, University of Pennsylvania, 2010.

General Audience Engagement and Presentations
"Can Machine Learning Help Team Performance?," featured presentation, MSU Science Festival, April 2022.
"Can Machine Learning Help Team Performance?," Gardner International Magnet School, 7th graders, April 2022.
"Team Formation and Collaboration Styles," MSU Honors College Fireside Chat for freshmen, September 2021.
"Economics Grad School," MSU Summer Research Opportunities Program for underrepresented students, Jul 2021.
"How Do People Pair Up?," MSU Science Festival, April 2021.
"Generating and Developing a Research Idea," MSU economics PhD students development seminar, March 2019.
"Academic Economics Job Market," HCEO Summer School on Socioeconomic Inequality, U Chicago, July 2016.
"The Game of Life: Understanding Education and Marriage with Game Theory," Loyola U of Chicago, March 2015.
"Expose Yourself!: Endless LOVE," University of Chicago, February 2014.

Media Mentions and Interviews
"Losing Common Ground: New MSU Study Reveals Rising American Political Extremism, Animosity and Activism," MSU College of Social Science News, September 2022.
"National Science Foundation Spotlight," MSU School of Planning, Design, and Construction, March 2022.
"Zhang Hanzhe Delivered an Academic Lecture at the 105th Session of Chen Daisun Theoretical Economics Lecture," Tsinghua University Institute of Economics, April 2021.
"Meridian Township's Chinese Restaurants in the Pandemic," Spartan Newsroom, April 2021.
"MSU Receives $1.2M NSF Grant to Study Intelligent Social Network Interventions," MSU Today, January 2020.
"How Your Marriage Can Affect Your Health," Femina (the oldest women's magazine in India), February 2018.
"Three Questions with Hanzhe Zhang," Human Capital and Economic Opportunity, June 2016.
"HCEO Announces First Summer Scholar-in-Residence," Human Capital and Economic Opportunity, May 2016.

Last updated: January 1, 2023