

Junying (June) ZHAO

University of California, Irvine
Irvine, CA 92697
USA

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junyingzhao@post.harvard.edu
zhaojy@uci.edu 949-501-3477

EDUCATION

Ph.D., Mathematical Behavioral Sciences, University of California, Irvine expected 2019
Hippocratic Paradox: Coevolution of Medical Ethics, Health Law, and Social Practice.
Committee: Donald Saari, Louis Narens, Igor Kopylov

Ph.D., Health Policy, McMaster University 2015
Three Essays in Welfare and Health Economics: Social Choice, Health Capital, and Health Expenditure.
Committee: Jeremiah Hurley, Deirdre Haskell, William Scarth, Lonnie Magee

B.Sc., Mathematics and Statistics, McMaster University 2015
M.P.H., Public Health, Harvard University 2009
M.Sc., Molecular Biology, Chinese National Academy of Medicine 2008
M.B.B.S., Clinical Medicine, Hebei Medical University 2005

RESEARCH PROGRAM

Applying mathematics and informatics to legal, ethical, and policy issues in medicine and public health

Mathematical Medicine, Medical Informatics
Legal Medicine, Medical Ethics, Health Law, Health Policy

PUBLICATIONS

Zheng, K. and **Zhao, J.** 2019 *Public Health Informatics*. In: Boulton ML, ed. Maxcy-Rosenau-Last Public Health and Preventive Medicine, 16th ed. New York City, NY: McGraw-Hill Professional Publishing.

Zhao, J., Scarth, W., and Hurley, J. 2018 “Investing in Health: A Macroeconomics Exploration of Short-Run and Long-Run Trade-Offs”, *Atlantic Economic Journal*, 46(1): 121-133.

Haskell, D., Hurley, J., and **Zhao, J.** 2017 “The Possibility of Anonymous Social Orderings Using Curvature of Indifference Hypersurfaces”, *Mathematics of Operations Research*, Revise & Resubmit.

Zhao, J. 2015 “Forecasting Health Expenditure: Methods and Applications to International Databases.” McMaster University Centre for Health Economics and Policy Analysis Working Paper No. 15-05. <http://www.cheпа.org/research-papers/working-papers>

Zhao, J., Scarth, W., and Hurley, J. 2015 “Investing in Health: A Macroeconomics Exploration of Short-Run and Long-Run Trade-Offs” McMaster University Department of Economics Working Paper No. 2015-15. <https://www.economics.mcmaster.ca/research/departments-working-papers>

Zhao, J. 2008 “Purification and Identification of Recombinant Human Interferon- λ_1 ,” *Journal of Clinical Rehabilitative and Tissue Engineering Research*, 12(50): 9932-9936.

Zhao, J. 2017 translator. *The Atlas of Beauty* by Mihaela Noroc.

Zhao, J. and Zuo, G. 2013 “A Critique of Welfarism and Extra-welfarism,” *Health Economy News*, January 25.

WORK IN
PROGRESS

“Detecting and Predicting Medical Negligence Using Machine Learning” (with Kai Zheng and Lu He)

“Strategic Conformity and Defiance” (with Igor Kopylov)

GRANTS

“Hippocratic Paradox and Irrational Consensus: A Mathematical Analysis of Medical Decision-Making” (with Don Saari, Humanities Research Institute, University of California \$20,000)

AWARDS

Associate Dean Fellowship, UC Irvine (\$6,900)	2019
Summer Research Award, UC Irvine (\$2,750)	2016, 2018
Teaching Assistantship Award, UC Irvine (\$48,900 annual)	2015–2019
The Andrew & Florence White Fellowship, University of California (\$20,000)	2016–2017
EDEEM Fellowship, European Union (€27,040 annual, declined)	2015–2018
Canadian Economics Association Travel Grant	2013, 2015
International Institute of Forecasters Travel Grant (\$2,000)	2013
Canadian Institutes of Health Research Travel Award (\$1,500)	2012
Yates Scholarship, McMaster University	2012
Graduate Student Association Travel Award, McMaster University	2012
Graduate and Research Scholarships, McMaster University (\$28,000 annual)	2010–2015
Presidential Scholars Fund, Harvard University (\$35,403)	2008–2009

PROFESSIONAL
RESEARCH
EXPERIENCE

2011, **Consultant**, Health, Nutrition, and Population Unit, World Bank, September – December.

“The Assessment of Total and Public Health Expenditures Data Discrepancy for World Bank Member Countries”. Assessed data quality and consistency, systematically documented discrepancies between data sources from WHO-National Health Account, IMF-World Economic Outlook, OECD Health Account.

2011, **Research Intern**, Dept of Health Systems Financing, World Health Organization, June – September.

“Macroeconomic Forecasting of Health Expenditure and its Components for WHO Member Countries”. Evaluated forecasting methods for health spending using National Health Account database.

2010, **Research Fellow**, Dana-Farber Cancer Institute, Harvard Medical School, January – June.

“Medicaid Services and Outcomes Research”. Examined the cancer stage distribution, delivery and survival outcomes of standard chemotherapy and radiation associated with Medicaid enrollment in New York and California.

2009, **Research Fellow**, National Institute of Injury Prevention, Ministry of Health, Mexico, July – December.

“The Impacts of Influenza A/H1N1 on Health Care Expenditure in Mexico”. Conducted panel data analysis, drafted and disseminated research report.

PROFESSIONAL
CLINICAL
EXPERIENCE

2003–2005, **Clinical Clerk**, The Fourth People’s Hospital, Hebei Province, China. Completed rotations in internal medicine, general surgery, pediatrics, and obstetrics and gynecology; acted as the second assistant to chief surgeons in cancer operations for patients with colon, rectal, and gastric cancer.

PRESENTATIONS 2018, *“Hippocratic Paradox”*
the American Society of Health Economists Annual Conference, Atlanta, USA, June 12.
the American Economics Association Annual Conference, Philadelphia, USA, January 5.

2015, *“Anonymous Social Orderings”*
the Institute for Mathematical Behavioral Sciences Friday Lunch Seminar, October 9.
the Royal Economic Society Annual Conference, Manchester, United Kingdom, March 30.
the 49th Annual Conference, Canadian Economics Association, Toronto, Canada, May 30.

2013, *“Forecasting Health Expenditure”*
the 33rd International Symposium on Forecasting, Seoul, South Korea, June 24.
the 47th Annual Conference, Canadian Economics Association, Montreal, Canada, June 1.
the 12th Annual Meeting, Canadian Health Economist’s Study Group, Winnipeg, Canada,
May 22.

2012, *“Forecasting Health Expenditure”*
the 9th European Conference on Health Economics, Zurich, Switzerland, July 20.
the 2nd Global Symposium on Health Services Research, Beijing, China, November 2.
the Annual Canadian Association for Health Services and Policy Research Conference,
Montreal, Canada, May 30.

2011, *“Evaluating Forecasting Methods for Health Spending”*, Department of Health Sys-
tems Financing, World Health Organization, Geneva, Switzerland, August 30.
“Impacts of Influenza A/H1N1 on Health Care Expenditure in Mexico”, the 8th World
Congress on Health Economics, Toronto, Canada, July 12.

TEACHING 2015 – 2019, Teaching Assistant, Economics Department, UC Irvine
EXPERIENCE Taught discussion sessions two hours each week; reviewed course contents; wrote extra
credit problems; discussed and graded assignments, midterms and finals; held office hours
at Economics Learning Center; answered students’ questions about course materials; men-
tored students on their choices of major and career.
Econ 15B: Probability and Statistics for Economics II (1 quarter, 90 students)
Econ 20A: Basic Economics I/Microeconomics (3 quarters, 100 students each quarter)
Econ 100A: Intermediate Economics I/Microeconomics (1 quarter, 90 students)
Econ 100C: Intermediate Economics III/Macroeconomics (1 quarter, 85 students)
Econ 122A: Applied Econometrics I (2 quarter, 80 students)

PROFESSIONAL Certificate of Preparing for Faculty Career: completed workshop series on faculty career
DEVELOPMENT preparation offered by the Graduate Resource Center at University of California, Irvine,
Spring 2016.
Certificate of Completion of Neural Networks in System Identification and Forecasting:
completed the workshop on neural networks offered by the International Institute of Fore-
casters, 2013.
Certificates of Completion of Medical Terminology I & II: completed workshop series on
basic and advanced medical terminology offered by Dana-Farber Cancer Institute, Harvard
Medical School, 2010.

SERVICE Vice President: Chinese Students and Scholars Association, Harvard School of Public
Health, 2009–2010.
Chair: Annual Conference of the Royal Economic Society, session of collective decision-

making, Manchester, United Kingdom, 2015.

Discussant:

Annual Conference of Canadian Economics Association, Toronto, Canada, 2015.

Annual Conference of Canadian Economics Association, Montreal, Canada, 2013.

Annual Meeting of Canadian Health Economist's Study Group, Winnipeg, Canada, 2013.

MEMBERSHIP

Society for Industrial and Applied Mathematics

American Association for Artificial Intelligence

American Medical Informatics Association

American Medical Association

American Bar Association

American College of Legal Medicine

American Health Lawyers Association

American Society of Law, Medicine, and Ethics

Association for Practical and Professional Ethics

American Society for Bioethics and Humanities

American Public Health Association (Law and Health Information Technology Sections)

Harvard Business School Healthcare Alumni Association

PROGRAMMING SKILLS

Python, R, MATLAB, NLTK, SAS, STATA, SPSS

LANGUAGES

English, Mandarin

REFERENCES

Donald G. Saari

Professor, Department of Mathematics

Professor, Department of Economics

University of California, Irvine

Irvine, CA USA

dsaari@uci.edu

Louis Narens

Professor, Institute for Mathematical Behavioral Sciences

University of California, Irvine

Irvine, CA USA

lnarens@uci.edu

Kai Zheng

Department of Informatics

School of Information and Computer Sciences

University of California, Irvine

Irvine, CA USA

kai.zheng@uci.edu