

## Junying (June) ZHAO

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Updated: April 15, 2019  
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- EDUCATION**
- Ph.D.**, Mathematical Behavioral Sciences, University of California at Irvine, U.S.A. expected 2019  
Dissertation: *Hippocratic Paradox — Coevolution of Ethics, Law, and Social Norms*.  
Committee: Donald Saari, Louis Narens, Igor Kopylov, Stergios Skaperdas
- Ph.D.**, Health Economics, McMaster University, Canada 2015  
Dissertation: *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, Canada 2015  
**M.P.H.**, Public Health, Harvard University, U.S.A. 2009  
**M.Sc.**, Molecular Biology, National Academy of Medical Sciences/Peking Union Medical College, China 2008  
**M.B.B.S.**, Clinical Medicine, Hebei Medical University, China 2005
- INTERESTS** **Mathematical Medicine; Medical Decision Theory; Medical Informatics; Machine Learning & Artificial Intelligence in Medicine**
- PEER-REVIEWED PUBLICATIONS**
- 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.** 2008 “Purification and Identification of Recombinant Human Interferon- $\lambda_1$ ”, *Journal of Clinical Rehabilitative and Tissue Engineering Research*, 12(50): 9932-9936.
- 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/department-working-papers>
- 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.chepa.org/research-papers/working-papers>
- BOOKS**
- Zhao, J.**, translator. *The Atlas of Beauty* by Mihaela Noroc, 2017.
- NEWSLETTERS**
- Zhao, J.** and Zuo, G. 2013 “A Critique of Welfarism and Extra-welfarism,” *Health Economy News*, January 25.

FUNDED RESEARCH	“Hippocratic Paradox and Irrational Consensus: A Mathematical Analysis of Medical Decision-Making” (with Don Saari, UC Humanities Research Institute, \$20,000)																								
WORK IN PROGRESS	<p>“Strategic Conformity and Defiance” (with Igor Kopylov)</p> <p>“Temptation, Commitment, and Weak Resolve Preferences Over Menus: A Lab Experiment ” (with John Duffy and Igor Kopylov)</p>																								
AWARDS	<table border="0"> <tr> <td>Associate Dean Fellowship, UC Irvine (\$6,900)</td> <td style="text-align: right;">2019</td> </tr> <tr> <td>Summer Research Award, UC Irvine (\$2,750)</td> <td style="text-align: right;">2016, 2018</td> </tr> <tr> <td>Teaching Assistantship Award, UC Irvine (\$48,900 annual)</td> <td style="text-align: right;">2015–2019</td> </tr> <tr> <td>The Andrew &amp; Florence White Fellowship, UC Humanities Research Institute (\$20,000)</td> <td style="text-align: right;">2016–2017</td> </tr> <tr> <td>EDEEM Fellowship, European Union (€27,040 annual, declined)</td> <td style="text-align: right;">2015–2018</td> </tr> <tr> <td>Canadian Economics Association Travel Grant</td> <td style="text-align: right;">2013, 2015</td> </tr> <tr> <td>International Institute of Forecasters Travel Grant (\$2,000)</td> <td style="text-align: right;">2013</td> </tr> <tr> <td>Canadian Institutes of Health Research Travel Award (\$1,500)</td> <td style="text-align: right;">2012</td> </tr> <tr> <td>Yates Scholarship, McMaster University</td> <td style="text-align: right;">2012</td> </tr> <tr> <td>Graduate Student Association Travel Award, McMaster University</td> <td style="text-align: right;">2012</td> </tr> <tr> <td>Graduate and Research Scholarships, McMaster University (\$28,000 annual)</td> <td style="text-align: right;">2010–2015</td> </tr> <tr> <td>Presidential Scholars Fund, Harvard University (\$35,403)</td> <td style="text-align: right;">2008–2009</td> </tr> </table>	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, UC Humanities Research Institute (\$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
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RESEARCH EXPERIENCE	<p>2011, <b>Short Term Consultant</b>, Health, Nutrition, and Population Unit, World Bank, September – December.</p> <p>“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.</p> <p>2011, <b>Research Intern</b>, Dept of Health Systems Financing, World Health Organization, June – September.</p> <p>“Macroeconomic Forecasting of Health Expenditure and its Components for WHO Member Countries”. Evaluated forecasting methods for health spending using National Health Account database.</p> <p>2010, <b>Research Fellow</b>, Dana-Farber Cancer Institute, Harvard Medical School, January – June.</p> <p>“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.</p> <p>2009, <b>Research Fellow</b>, National Institute of Injury Prevention, Ministry of Health, Mexico, July – December.</p> <p>“The Impacts of Influenza A/H1N1 on Health Care Expenditure in Mexico”. Conducted panel data analysis, drafted and disseminated research report.</p>																								
CLINICAL EXPERIENCE	<p>2003–2005, <b>Clinical Clerk</b>, The Fourth People’s Hospital, Hebei Province, China.</p> <p>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.</p>																								
TEACHING EXPERIENCE	<p>2015 – 2018, <b>Teaching Assistant</b>, Economics Department, UC Irvine</p> <p>Taught discussion sessions two hours each week; reviewed course contents; wrote extra</p>																								

credit problems; discussed and graded assignments, midterms and finals; held office hours at Economics Learning Center; answered students' questions about course materials; mentored 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 (2 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)

CONFERENCE  
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 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 Systems 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.

CAMPUS TALKS

2016, "*Hippocratic Paradox*", IMBS Luce Graduate Student Conference, May 27.

2015, "*The Possibility of Anonymous Social Orderings Using Curvature of Indifference Hypersurfaces*", IMBS Friday Lunch Seminar, October 9.

PROFESSIONAL  
DEVELOPMENT

Preparing for the Faculty Career Certificate Program: completed workshop series on faculty career 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 Forecasters, 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 TO  
PROFESSION

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.

UNIVERSITY  
SERVICE

Vice President: Chinese Students and Scholars Association, Harvard School of Public Health, 2009–2010.

MEMBERSHIP

Society for Industrial and Applied Mathematics, Association for Women in Mathematics  
American Medical Informatics Association, American Association for Artificial Intelligence  
Society for Medical Decision Making, American Health Lawyers Association

Harvard Club of San Francisco, Harvard Club of Silicon Valley, Harvard Club of Southern California, Harvard Business School Healthcare Alumni Association

SKILLS

Python, R, MATLAB, SAS, STATA