

# Yongchao Zhang

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## Academic Positions

Associate Professor (2012–present, without tenure), Shanghai University of Finance and Economics

Assistant Professor (2011–2012), Shanghai University of Finance and Economics

## Education

Ph.D., Mathematics, National University of Singapore, 2011

Thesis Title: Saturation and Economic Theory. Advisors: Prof. Yeneng Sun and Xiao Luo

M.S. (2008), B.S. (2003), Mathematics, University of Science and Technology of China

## Research Interest

Matching theory, Game Theory, Mathematical Economics, Microeconomic Theory

Erdős Number: 4, via Füredi Zoltán— Peter A. Loeb — Yeneng Sun

## Publications

On the equivalence of large individualized and distributionalized games (with M. Ali Khan, Kali P. Rath and Haomiao Yu), 2016, forthcoming in *Theoretical Economics*

On Sufficiently-Diffused Information in Bayesian Games: A Dialectical Formalization (with M. Ali Khan), 2016, forthcoming in *Advances in Mathematical Economics*

Existence of Pure-Strategy Equilibria in Bayesian Games: A Sharpened Necessity Result (with M. Ali Khan), 2015, forthcoming in *International Journal of Game Theory*

Pure-strategy Nash equilibria in nonatomic games with infinite-dimensional action spaces (with Xiang Sun), *Economic Theory* **58** (2015), 161–182

On the existence of pure-strategy equilibria in games with private information: a complete characterization (with M. Ali Khan), *Journal of Mathematical Economics* **50** (2014), 197–202

Large distributional games with traits (with M. Ali Khan, Kali P. Rath and Haomiao Yu), *Economics Letters* **118** (2013), 502–505

Purification, saturation and the exact law of large numbers (with Jianwei Wang), *Economic Theory* **50** (2012), 527–545

Set-valued functions, Lebesgue extensions and saturated probability spaces (with M. Ali Khan), *Advances in Mathematics* **229(2)** (2012), 1080–1103

Individual risk and Lebesgue extension without aggregate uncertainty (with Yeneng Sun), *Journal of Economic Theory* **144** (2009), 432-443

## Working papers

Weak Stability and Pareto Efficiency in School Choice, (with Qianfeng Tang), working paper, 2016

On Pure-Strategy Equilibria in Games with Correlated Information (with M. Ali Khan), 2015

Hierarchical Exchange Rules and the Core in Indivisible Objects Allocation (with Qianfeng Tang), 2015

Aumann's notion of rationality for backward induction: a research note (with Xiao Luo), 2009

## In progress

Battle of the Sexes with Subjective Priors (with Jaimie Lien and Jie Zheng)

On the Efficiency of Regional Quota System School Choice, with Ning Sun and Qianfeng Tang

Enhancing Stability in Top Trading Cycles Mechanism, with Kang Rong and Qianfeng Tang

## Teaching

Mathematical Analysis I (Fall 2011-2015, 2017), II (Spring 2012, 2014-2017)

Topics on Matching and Market Design (Spring 2015-2017, with Quan Wen and Qianfeng Tang)

## Seminar · Conference Organization

Micro-theory Seminar coordinator, School of Economics, SHUFE, Fall 2013, Fall 2016

Co-organizer of Shanghai Microeconomic Theory Workshop, SHUFE, 2013, 2014

Co-organizer of Microeconomic Theory Winter Workshop, 2014, 2015 (Shanghai, SHUFE), 2016 (Nanjing, NAU)

## Honors · Awards · Grants

Teaching award , SHUFE, 2014, 2016

Scholarship, Hausdorff Trimester Program, Hausdorff Research Institute for Mathematics, University of Bonn

— on *Stochastic Dynamics in Economics and Finance*, 10-23 August, 2013

— on *Mechanism Design and Related Topics*, 03 May- 10 August, 2009

NSF of China for young scholars, *Saturation and its Applications in Game Theory* (No. 11201283), January 2013–December 2015

Best Graduate Researcher Award (Faculty of Science), National University of Singapore, 2008

## Conferences · Presentations

2016

The 2016 China Meeting of Econometric Society, June 24-27, Chengdu · The 2016 Asian Meeting of the Econometric Society, August 9-13, Kyoto

2015

Wuhan University, 22 May · Hitotsubashi University, July 23, Tokyo · Hosei University, July 25, Tokyo · The 10th Conference on Industrial Economics and Economic Theory, Shandong University, June 27-28, Jinan

2014

The 2014 Shanghai Microeconomics Workshop, 14-15, June · The 2014 Asian Meeting of the Econometric Society, 19- 22 June, Taiwan · 2014 Tsinghua Microeconomics Workshop, 24-26 June, Beijing · The 2014 China Meeting of Econometric Society, 25-27 June, Xiamen · The 14th Annual Conference of Society for the Advancement of Economic Theory, 19-22 August, Tokyo · Nottingham Ningbo University, 13 November · Xi'an Jiaotong-Liverpool University, 9 October

2013

Nanjing University, December 26 · Tsinghua University, November 21 · Workshop on Modeling Market Dynamics and Equilibrium - New Challenges, New Horizons, August 19 - 22, Hausdorff Research Institute for Mathematics, University of Bonn, Germany · The Asian Meeting of the Econometric Society, 2- 4 August, Singapore · The 13th Annual Conference of Society for the Advancement of Economic Theory, 22-27 July, Paris, France

2012

The NBER /NSF/CEME Conference in General Equilibrium and Mathematical Economics, 28-30 September, Indiana University at Bloomington, USA · The 2012 International Conference on Game Theory and Applications, 29-30 August, Qingdao, China · The 12th Annual Conference of Society for the Advancement of Economic Theory, 29 June-2 July, Brisbane, Australia

2011

The 11th conference of Society for the Advancement of Economic Theory, 26th June-1st July, Faro, Portugal · Workshop on the Probabilistic Impulse behind Modern Economic Theory, Institute for Mathematical Sciences, National University of Singapore, 11 - 18 January

2010

The 1st conference of the Chinese Game Theory and Experimental Economics Association, 24-26 August, Beijing, China · The 10th conference of Society for the Advancement of Economic Theory, 13th-15th August, Singapore · Multidisciplinary Decision Science Symposium, Nanyang Technology University, 12-13 August, Singapore

## Referee

Econometrica, Economic Theory, Fixed Point Theory and Applications, Frontier of Economics in China, Journal of Mathematical Economics, Science China Mathematics

Last updated: March 24, 2017