Yongchao Zhang

111 Wuchuan Road, School of Economics Shanghai University of Finance and Economics Shanghai, 200433, China Telephone:(86)-21-65902682Email:yongchao@mail.shufe.edu.cnHomepage:http://zhangyongchao.weebly.com

Academic Positions

Associate Professor (2012-present; tenured at 2018), 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

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

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

Research Interest

Market Design Theory, Game Theory, Mathematical Economics, Microeconomic Theory

Publications

On the solvability of three-agent task allocation with unqualified agents priority structures (with GU Yu), published online in *Review of Economic Design* (19 December 2023).

The core of school choice problems (with Kang Rong and Qianfeng Tang), forthcoming in *Economic Theory* (24 July 2023).

On Two Mechanisms in Job Rotation Problems (with GU Yu), *Journal of Mathematical Economics*, **111** (2024), 102959.

Weak Stability and Pareto Efficiency in School Choice (with Qianfeng Tang), *Economic Theory*, **71**(2021), 533-552.

On stable and efficient mechanisms for priority-based allocation problems (with Kang Rong, and Qianfeng Tang), *Journal of Economic Theory*, **187** (2020), 105014.

On Pure-Strategy Equilibria in Games with Correlated Information (with M. Ali Khan), *Games and Economic Behavior*, **111** (2018), 289-304.

On the equivalence of large individualized and distributionalized games (with M. Ali Khan, Kali P. Rath and Haomiao Yu), *Theoretical Economics*, **12** (2017), 533-554.

On Sufficiently-Diffused Information in Bayesian Games: A Dialectical Formalization (with M. Ali Khan), 2016, in *Advances in Mathematical Economics* Vol. 21, Shigeo Kusuoka and Toru Maruyama (eds.), Springer Verlag, Singapore, pp 47–73, 2017.

Existence of Pure-Strategy Equilibria in Bayesian Games: A Sharpened Necessity Result (with M. Ali Khan), *International Journal of Game Theory* **46** (2017), 167-183.

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

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

Teaching

Mathematical Analysis I (Fall 2011-2015, 2017-2019), II (Spring 2012, 2014-2017)

Topics on Matching and Market Design (Spring 2015-2023, with Quan Wen, Qianfeng Tang, and Dawen Meng)

Mathematical Economics (Fall, 2019-2023)

Game theory (Spring, 2021-2023)

Advanced Microeconomic Theory (Spring, 2022-2023)

Honors · Awards · Grants

Service Award, SHUFE, 2019

NSF of China, (No. 71873081), January 2019–December, 2022

Teaching Award, SHUFE, 2014, 2016, 2018

Scholarship, Hausdorff Trimester Program, Hausdorff Research Institute for Mathematics, University of Bonn, 2013, 2009.

NSF of China for young scholars, (No. 11201283), January 2013–December 2015

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

Referee

Economic Theory, Economic Theory Bulletin, Fixed Point Theory and Applications, Frontier of Economics in China, Games and Economic Behavior, Economics Bulletin, Journal of Mathematical Economics, Science China Mathematics, Theory and Decision

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