

Wei He

Curriculum Vitae

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Position

Aug 2022 – Present Associate Professor, Department of Economics, The Chinese University of Hong Kong
Aug 2016 – July 2022 Assistant Professor, Department of Economics, The Chinese University of Hong Kong

Education

2014–2016 **Ph.D. in Economics**, *The University of Iowa*.
2010–2014 **Ph.D. in Mathematics**, *National University of Singapore*.
2006–2010 **B.S. in Statistics**, *Peking University*.

Research Interests

Microeconomic Theory, Game Theory, Mechanism Design

Publications

- 1 Wei He, Dynamic mechanism design with capacity constraint, forthcoming at *Operations Research*.
- 2 Wei He and Jiangtao Li, Competitive information disclosure in random search markets, *Games and Economic Behavior* **140** (2023), 132–153.
- 3 Wei He and Yeneng Sun, Conditional expectation of Banach valued correspondences and economic applications, *Journal of Mathematical Economics* **101** (2022), 102698.
- 4 Wei He and Jiangtao Li, Correlation-robust auction design, *Journal of Economic Theory* **200** (2022), 105403.
- 5 Wei He, Discontinuous stochastic games, *Economic Theory* **73** (2022), 827–858.
- 6 Wei He and Yeneng Sun, Dynamic games with (almost) perfect information, *Theoretical Economics* **15** (2020), 811–859.
- 7 Yi-Chun Chen, Wei He, Jiangtao Li and Yeneng Sun, Equivalence of stochastic and deterministic mechanisms, *Econometrica* **87** (2019), 1367–1390.
- 8 Wei He and Yeneng Sun, Pure-strategy equilibria in Bayesian games, *Journal of Economic Theory* **180** (2019), 11–49.
- 9 Wei He and Yeneng Sun, Conditional expectation of correspondences and economic applications, *Economic Theory* **66** (2018), 265–299.
- 10 Wei He and Yeneng Sun, The necessity of nowhere equivalence, *Advances in Mathematics* **325** (2018), 608–639.
- 11 Wei He, Xiang Sun and Yeneng Sun, Modeling infinitely many agents, *Theoretical Economics* **12** (2017), 771–815.
- 12 Wei He and Yeneng Sun, Stationary Markov perfect equilibria in discounted stochastic games, *Journal of Economic Theory* **169** (2017), 35–61.
- 13 Wei He and Nicholas C. Yannellis, Equilibria with discontinuous preferences: New fixed point theorems, *Journal of Mathematical Analysis and Applications* **450** (2017), 1421–1433.

- 14 Wei He and Nicholas C. Yannelis, A remark on discontinuous games with asymmetric information and ambiguity, *Economic Theory Bulletin* **5** (2017), 119–126.
- 15 Wei He and Jiangtao Li, Efficient dynamic mechanisms with interdependent valuations, *Games and Economic Behavior* **97** (2016), 166–173.
- 16 Wei He and Nicholas C. Yannelis, Existence of Walrasian equilibria with discontinuous, non-ordered, interdependent and price-dependent preferences, *Economic Theory* **61** (2016), 497–513.
- 17 Wei He and Nicholas C. Yannelis, Existence of equilibria in discontinuous Bayesian games, *Journal of Economic Theory* **162** (2016), 181–194.
- 18 Wei He and Nicholas C. Yannelis, Equilibrium theory under ambiguity, *Journal of Mathematical Economics* **61** (2015), 86–95.
- 19 Wei He and Nicholas C. Yannelis, Discontinuous games with asymmetric information: An extension of Reny’s existence theorem, *Games and Economic Behavior* **91** (2015), 26–35.
- 20 Wei He and Xiang Sun, On the diffuseness of incomplete information game, *Journal of Mathematical Economics* **54** (2014), 131–137.

Working Papers

- 21 Optimal learning by consuming for a divisible good (with Huiyi Guo and Bin Liu), 2023.
- 22 Order statistics of large samples: Theory and an application to robust auction design (with Jiangtao Li and Weijie Zhong), 2022.
- 23 Does randomization matter in dynamic games? (with Enxian Chen, Yeneng Sun, and Hanping Xu), 2021.
- 24 Characterization of equilibrium existence and purification in general Bayesian games (with Xiang Sun, Yeneng Sun, and Yishu Zeng), 2021.

Honors

- 1 Elected Fellow of the Society for the Advancement of Economic Theory, 2021.
- 2 Young Researcher Award, The Chinese University of Hong Kong, 2021.
- 3 National Natural Science Foundation - China’s Excellent Young Scientists Fund (Hong Kong and Macau), 2021, RMB 2 million.

Grants

- 1 PI: Existence of equilibria in games with incomplete information, RGC Hong Kong, 01/01/2018–31/12/2019.
- 2 PI: Dynamic mechanism design with endogenous information, RGC Hong Kong, 01/01/2019–31/12/2021.
- 3 PI: Stationary equilibrium: Existence, approximation, and comparative statics, RGC Hong Kong, 01/01/2022–31/12/2023.
- 4 PI: Optimal learning of experience goods, RGC Hong Kong, 01/01/2024–31/12/2025.

Professional Service

Editorship Associate Editor: *Economic Theory*, *Journal of Mathematical Economics*, *Economic Theory Bulletin*

Referee *Econometrica*, *Theoretical Economics*, *Journal of Economic Theory*, *American Economic Journal: Microeconomics*, *Games and Economic Behavior*, *Economic Theory*, *Operations Research*, *Mathematics of Operations Research*, *Journal of Mathematical Economics*, *International Journal of Game Theory*, *Journal of Mathematical Analysis and Applications*, *Theory and Decision*, *Mathematical Social Sciences*, *Economic Theory Bulletin*, *International Game Theory Review*

Conference Organization

- 2023 10th China Meeting on Game Theory and Its Applications, Renmin University, Programme Committee Member
The 22th SAET Conference, Paris, Session Organizer
- 2022 CUHK Workshop on Economic Theory, CUHK, Organizer
Conference on Mechanism and Institution Design, NUS, Programme Committee Member and Session Organizer
The 21th SAET Conference, Australian National University, Session Organizer
- 2021 The 20th SAET Conference, Seoul National University, Session Organizer
- 2019 CUHK Workshop on Applied Theory, CUHK, Co-organizer
- 2018 Dynamic Models in Economics, Institute for Mathematical Sciences, National University of Singapore, Programme Committee Member
The 18th SAET Conference, Academia Sinica, Session Organizer
- 2017 Asian Meeting of the Econometric Society, CUHK, Session Organizer
China Meeting of the Econometric Society, Wuhan University, Session Organizer
The 17th SAET Conference, Faro, Portugal, Session Organizer