

Last updated: July 17, 2025

Academic Positions

Current Positions

- 2024-present **Assistant Professor**, *Department of Finance*, Dongbei University of Finance and Economics, China.
- 2023-present **Junior Research Fellow**, *Research Institute for Economics and Business Administration*, Kobe University, Japan.

Past Positions

- 2024 **Visiting Scholar**, *Department of Informatics*, Kyushu University, Japan.
Host: Makoto Yokoo (Multi-agent AI Lab)
- 2023 **Postdoctoral Fellow**, *Simons Laufer Mathematical Sciences Institute (SLMath)* formerly *Mathematical Sciences Research Institute (MSRI)*, Berkeley, USA.
Mentor: Zsuzsanna Jankó and Irene Lo.
- 2020-2023 **Swiss National Science Foundation (SNSF) funded researcher**.
- 2018-2023 **Teaching Assistant**, *Department of Economics*, University of Lausanne (HEC), Switzerland.
- 2015-2016 **Teaching Assistant**, *Department of Economics*, Yokohama National University, Japan.
- 2016 **Research Assistant**, *Department of Economics*, Yokohama National University, Japan.
work with Prof. Taro Kumano

Education

- 2023 **Ph.D. in Economics**, *University of Lausanne (HEC)*, Switzerland.
Dissertation Committees: Bettina Klaus (doktormutter), Flip Klijn, Rustamdjan Hakimov, and William Thomson.
- 2019 **Alumni**, *Swiss Program for Doctoral Students in Economics*, Study Center Gerzensee.
- 2018 **M.Res. Economics**, *Universitat Autònoma de Barcelona*, Spain.
- 2016 **M.A. Economics**, *Yokohama National University*, Japan.
- 2013 **B.S. Management & Information Sciences**, *Josai International University*, Japan.
- 2013 **B.A. linguistics (Japanese)**, *Tianjin University of Technology*, China.

Research Interests

General area	Microeconomics	Artificial Intelligence	Applied Mathematics
Methodology	Game Theory	Operations Research	Experimental Economics
Research Topics	Market Design	Digital Economics	Behavioral Economics
Google Scholar	https://scholar.google.com/citations?user=3bhjYoUAAAAJ Citations: 255; H-index: 7		

Research Papers (Economics)

Publications (peer-reviewed)

- ✍ Efficiency in Multiple-type Housing Markets
Journal of Mathematical Economics, 119 (2025): 103136.
SING 18 Prize (2023)
- ✍ Characterizing TTC via Endowments-swapping-proofness and Truncation-proofness
(with Jacob Coreno)
Economics Letters, 247 (2025): 112159.
- ✍ Characterizing the Typewise Top-Trading-Cycles Mechanism for Multiple-Type Housing Markets (with Bettina Klaus and Flip Klijn)
Games and Economic Behavior, 146 (2024): 234-254.
Featured in *Market Design* by Alvin E. Roth
An extended abstract appeared in the proceedings of the 6th International Workshop on Matching Under Preferences (**MATCH-UP 2022**)
- ✍ On the Asymptotic Performance of Affirmative Actions in School Choice (with Yun Liu and Gaowang Wang)
Annals of Economics and Finance, 24.2 (2023): 289-307.
- ✍ Preference Revelation Games and Strict Cores of Multiple-type Housing Market Problems (with Bettina Klaus)
International Journal of Economic Theory (Special Issue in Honor of William Thomson), 18.1 (2022): 61-76.

Working Papers

- ✍ How to Share Streams: Indices Characterizations for Music Streaming Platforms Problems
(with Zeming Ma)
- ✍ What Makes the Difference: Deriving Characterizations of DA and IA from Basic Properties
(with Jacob Coreno)
- ✍ On Fairness of Multi-center Allocation Problems
(with Yao Cheng)
- ✍ Welfare Lower Bound Conditions in House Allocation Problems with Existing Tenants: A characterization, 2025, ssrn 5111246
(with Yang Chen)
Major Revision at *Games and Economic Behavior*
- ✍ Characterizing the Pairwise Core in Housing Markets, 2024, ssrn 5165740
(with Yao Cheng)
- ✍ Justified Fairness in House Allocation Problems: two Characterizations of Strategy-proof Mechanisms, 2024, arxiv 2407.14101
(with Jacob Coreno)
- ✍ Informational Size in School Choice, 2024, arxiv 2407.11273
(with Yun Liu)
An extended abstract appeared in the proceedings of the 20th Conference on Web and Internet Economics (**WINE 2024**)

- ✍ Some Characterizations of TTC in Multiple-Object Reallocation Problems, 2024, arxiv 2404.04822
(with Jacob Coreno)
An extended abstract appeared in the proceedings of the 7th International Workshop on Matching Under Preferences (MATCH-UP 2024)
- ✍ Endowments-swapping-proofness in Multiple-type Housing Markets, 2023, ssrn 4668054
- ✍ War and Peace in the Boardroom: Pre-Vote Communication, Herding Behavior, and Boardroom Politics, 2023
(with Shusen Qi, and Hang Sun)

Selected Works in Progress

- ✍ Characterizing Hybrid No-Trade-Bundled Top Trading Cycle Mechanisms for Multiple-type Housing Markets
(with Bettina Klaus and Flip Klijn)
- ✍ Object Allocation Problems with Coalitional Endowments: Sequential Priorities-augmented Top Trading Cycles Mechanisms
(with Bettina Klaus)
- ✍ Kidney Exchange with Inheritance Priority
(with Yao Cheng, Dexu Wang, and Xiaoge Zhang)
- ✍ Dynamic Exchange with Timing Constraints
(with Yao Cheng, and Zhan Wang)

Inactive Papers

- ✍ Endowments-swapping-proofness and Efficiency in Multiple-type Housing Markets, RIEB Discussion Paper No.2023-14
Kanematsu Prize (2022)
This paper is superseded by “Efficiency in Multiple-type Housing Markets” and “Endowments-swapping-proofness in Multiple-type Housing Markets”

Research Papers (Other Areas)

Publications (peer-reviewed)

- ✍ Impatient Queuing for Intelligent Task Offloading in Multi-Access Edge Computing (with Bin Han, Yihua Xu, Vincenzo Sciancalepore, and Hans D. Schotten),
***IEEE Transactions on Wireless Communications* 22.1 (2023): 59-72**
- ✍ Multiservice-based Network Slicing Orchestration with Impatient Tenants (with Bin Han, Vincenzo Sciancalepore, Xavier Costa-Perez, and Hans D. Schotten)
***IEEE Transactions on Wireless Communications* 19.7 (2020): 5010-5024**
- ✍ A Markov Model of Slice Admission Control (with Bin Han, Vincenzo Sciancalepore, Xavier Costa-Perez, and Hans D. Schotten)
***IEEE Networking Letters* 1.1 (2018): 2-5**
- ✍ A Utility-driven Multi-Queue Admission Control Solution for Network Slicing (with Bin Han, and Hans D. Schotten)
In Proceedings of the ***IEEE INFOCOM-2019***

Working Papers

- ✍ Buyer-Initiated Auction Mechanism for Data Redemption in Machine Unlearning, 2025, arxiv 2503.23001
(with Bin Han, Jie Wang, and Hans D. Schotten)

Selected Works in Progress

- ⇒ Price Competition in the Urban Air Mobility Market
(with Ye Yuan)
- ⇒ Mechanism Design for LLM Ecosystem
(with Zhanzhan Zhao)

Inactive Papers

- ✂ A Profit-Maximizing Strategy of Network Resource Management for 5G Tenant Slices, 2018, arxiv 1709.09229
(with Bin Han, Lianghai Ji, and Hans D. Schotten)

Scholarships, Grants, Honors & Awards

- 2025 CCF-DiDi GAIA Collaborative Research Fund, *DiDi Chuxing Technology Company*
- 2025-2028 Project Partner of *Swiss National Science Foundation (SNSF)* Project 10003002
(principal investigator: Bettina Klaus)
- 2024 Early Career Research Grant, *Dongbei University of Finance and Economics*
- 2024 High-level Talents Program in Dalian, *Dalian City*
- 2023 Best Faculty PhD Thesis Award (Prix 2023 de Faculté), *HEC Lausanne*
- 2023 SING Best Student Paper Prize, *18th European Meeting on Game Theory*
- 2023 Postdoctoral Fellowship at SLMath(MSRI), supported by *National Science Foundation & Alfred P. Sloan Foundation*
- 2022 Kanematsu Prize, *Research Institute of Economics and Business Administration (RIEB), Kobe University*
- 2020-2023 Member of *Swiss National Science Foundation (SNSF)* Project 100018_192583
(principal investigator: Bettina Klaus)
- 2016 BGSE Severo Ochoa Fellowship, *Barcelona School of Economics*
- 2012 JASSO Honors Scholarship, *Japan Student Services Organization*

Teaching (abbr. U=undergraduate; G=graduate; H=honors program)

- 2024-present **Instructor**, *Dongbei University of Finance and Economics*, China,
2025: Asset and Liability Management (U), Game Theory (G).
2024: Futures Options and other derivatives (H), Financial Econometrics (H).
- 2018-2023 **Teaching Assistant**, *University of Lausanne*, Switzerland,
Game Theory (G), Microeconomics 2 (U), Market Design (U).
- 2015-2016 **Teaching Assistant**, *Yokohama National University*, Japan,
Game Theory (U), Microeconomics (U), Microeconomics 2 (G), Mathematical Economics (G).

Professional Activities

Journal Referee	Econometrica, Games and Economic Behavior, Journal of Economic Behavior and Organization, Journal of Mathematical Economics, Social Choice and Welfare, Mathematical Social Sciences, Review of Economic Design, Journal of Public Economic Theory, Mathematical Reviews
Program Committee	WINE 2025

Academic Presentations (including upcoming talks)

- 2025 14th Conference on Economic Design (CED), Colchester, United Kingdom
- 2025 Renmin University of China, Beijing, China
- 2025 Economic Theory Workshop at Hitotsubashi University, Tokyo, Japan
- 2025 Rokkodai Theory Seminar at Kobe University, Kobe, Japan
- 2024 Hunan University, Changsha, China
- 2024 Institute for Theoretical Computer Science at SUFE, Shanghai, China
- 2024 Southwestern University of Finance and Economics, Chengdu, China
- 2024 Liaoning University, Shenyang, China
- 2024 7th World Congress of the Game Theory Society, Beijing, China
- 2024 35th Stony Brook International Conference on Game Theory, Stony Brook, USA
- 2024 Conference on Mechanism and Institution Design (CMID), Budapest, Hungary
- 2024 17th meeting of the Society for Social Choice and Welfare (SSCW), Paris, France
- 2024 Asian Meeting of the Econometric Society in China (AMES), Hangzhou, China
- 2024 Modern Economics Seminar at Yokohama National University, Yokohama, Japan
- 2024 Machikaneyama Seminar at Osaka University, Osaka, Japan
- 2024 Kyushu University, Fukuoka, Japan
- 2023 Shanghai University of Finance and Economics, Shanghai, China
- 2023 Market Design Seminar at Stanford University, Palo Alto, USA
- 2023 Theory Seminar at North Carolina State University, Raleigh, USA
- 2023 Simons Laufer Mathematical Sciences Institute, Berkeley, USA
- 2023 22nd Annual SAET Conference, Paris, France
- 2023 18th European Meeting on Game Theory (SING18), Messina, Italy
- 2023 13th Conference on Economic Design (CED), Girona, Spain
- 2023 12th Lisbon Meetings in Game Theory and Applications, Lisbon, Portugal
- 2023 Wuhan University, Wuhan, China
- 2023 Huazhong University of Science and Technology, Wuhan, China
- 2023 Shanghai University of International Business and Economics, Shanghai, China
- 2023 Nanjing Audit University, Nanjing, China
- 2023 Game Theory Workshop 2023, hosted by Hitotsubashi University, Tokyo, Japan
- 2022 Theory Workshop at University of Rochester, Rochester, USA
- 2022 Gerzensee Alumni Conference, Gerzensee, Switzerland
- 2022 Annual Meeting of the Association of Southern European Economic Theorists, Greece
- 2022 Micro Lab Seminar at Autonomous University of Barcelona (UAB), Barcelona, Spain

2022 6th International Workshop on Matching Under Preferences, Vienna, Austria
2022 Asia Meeting of the Econometric Society (AMES), Tokyo, Japan
2022 CEFM Seminar at Waseda University, Tokyo, Japan
2022 Economic Theory Workshop at Hitotsubashi University, Tokyo, Japan
2022 Institute of Social and Economic Research, Osaka University, Osaka, Japan
2022 Workshop on Microeconomics and Game Theory at Kyoto University, Kyoto, Japan
2022 Conference on Mechanism and Institution Design (CMID), Singapore
2022 12th Conference on Economic Design (CED), Padua, Italy
2022 Lausanne Matching and Market Design Workshop 2022, Lausanne, Switzerland
2022 Market Design Seminar Series, hosted by University of Tokyo Market Design Center
2022 2nd URV Workshop on Game Theory, Reus, Spain
2021 Southwestern University of Finance and Economics, Chengdu, China
2021 Shandong University, Jinan, China
2020 Financial Stability Workshop, hosted by Dongbei University of Finance and Economics
2020 Quarantined Game Theory Conference, hosted by Hebrew University of Jerusalem
2019 11th Conference on Economic Design (CED), Budapest, Hungary
2018 Dongbei University of Finance and Economics, Dalian, China

Languages

Mandarin Chinese (native), Japanese, English