

# Di Feng

202, SLMath/MSRI  
17 Gauss Way, Berkeley, CA 94720  
✉ dfeng@msri.org  
📄 <https://dfengecon.github.io>

Last updated: October 22, 2023

## Positions

- 2023-present **Postdoctoral Fellow**, *Simons Laufer Mathematical Sciences Institute (SLMath)*  
formerly *Mathematical Sciences Research Institute (MSRI)*, Berkeley, USA.  
Mentor: Zsuzsanna Jankó and Irene Lo.
- 2023-present **Junior Research Fellow**, *Research Institute for Economics and Business Administration*, Kobe University, Japan.

## Past Employment

- 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 (advisor), 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	<a href="https://scholar.google.com/citations?user=3bhjYoUAAAAJ">https://scholar.google.com/citations?user=3bhjYoUAAAAJ</a>		

## Research Papers (Economics)

Publications (peer-reviewed)

- \* 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.
  - \* On the Asymptotic Performance of Affirmative Actions in School Choice (with Yun Liu and Gaowang Wang) *Annals of Economics and Finance*, Forthcoming
- ### Working Papers
- \* Efficiency in Multiple-type Housing Markets, 2023, arxiv 2308.14989  
*SING 18 Prize (2023)*
  - \* Endowments-swapping-proofness in Multiple-type Housing Markets, RIEB Discussion Paper No.2023-14  
*Kanematsu Prize (2022)*
  - \* A characterization of the Coordinate-wise Top-Trading-Cycles Mechanism for Multiple-type Housing Markets, Barcelona School of Economics Working Paper 1341 (with Bettina Klaus and Flip Klijn)  
*R&R Games and Economic Behavior*  
An extended abstract appeared in the proceedings of the 6th International Workshop on Matching Under Preferences (MATCH-UP2022)
  - \* War and Peace in the Boardroom: Pre-Vote Communication, Herding Behavior, and Boardroom Politics, 2022 (with Shusen Qi, and Hang Sun)

## Research Papers (Operations Research)

### 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

- \* 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

- 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), National Science Foundation and 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

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## Professional Activities

- Referee Activities Social Choice and Welfare, Mathematical Social Sciences, Review of Economic Design, Games and Economic Behavior, Journal of Economic Behavior and Organization
- Memberships Econometric Society, Society for Economic Design, Society for the Advancement of Economic Theory

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## Academic Presentations (including upcoming talks)

- 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

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## Languages

Mandarin Chinese (native), Japanese, English

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## References

### **Bettina Klaus (advisor)**

Faculty of Business and Economics  
University of Lausanne  
CH-1015 Lausanne, Switzerland

✉ [bettina.klaus@unil.ch](mailto:bettina.klaus@unil.ch)

☎ +41 21 692 34 75

### **William Thomson**

Department of Economics  
University of Rochester  
14627 Rochester, United States

✉ [william.thomson@rochester.edu](mailto:william.thomson@rochester.edu)

☎ +1 585 275 2236

### **Flip Klijn**

Institute for Economic Analysis and  
Barcelona School of Economics  
08193 Bellaterra (Barcelona), Spain

✉ [flip.klijn@iae.csic.es](mailto:flip.klijn@iae.csic.es)

☎ +34 93 580 66 12