Alireza Amanihamedani

Present Address
London Business School
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Education

- *Doctor of Philosophy,* Management Science & Operations Research
  London Business School, 2020-Present

- *Bachelor of Science,* Computer Software Engineering
  Minor: Mathematics
  Sharif University of Technology, 2014 - 2019

Research Papers

- *Adaptive Approximation Schemes for Matching Queues*, with Ali Aouad and Amin Saberi, *submitted*, available online.
  - The conference version appeard in the 57-th ACM Symposium on Theory of Computing (**STOC'25**)

- *Improved Approximations for Stationary Bipartite Matching: Beyond Probabilistic Independence*, with Ali Aouad, Tristan Pollner, and Amin Saberi, *submitted*, available online.

- *Spatial Matching under Multihoming*, with Ali Aouad and Daniel Freund, **Operations Research** (major revision), available online.

- *Governance of Social Welfare in Networked Markets*, with Fazli, **IEEE Transactions on Computational Social Systems**, available online.

- *On the Maximum Order of Induced Paths and Induced Forests in Regular Graphs*, with Akbari, Mousavi, Nikpey, Sheybani, *Working paper*, available online.

Ongoing Work

- *Learning a Choice Model for Bundles*, with Ali Aouad, Vincent Auriau, and Antoine Desir.
- *Curbing Cherry-picking through Priority Dispatch*, with Jiayu (Kamessi) Zhao.

Research Experience

- **Research Internship, Data Analytics Lab, ETH Zurich**   Summer 2018
  - Working on the connections between distributionally robust optimization, stochastic gradient descent, and deep learning

- **Research Internship, School of Computing, National University of Singapore**   Summer 2017
  - Working on semantic verification of programming languages

Industry Experience

- **Data scientist, Cafe Bazaar Company**   Feb. 2020 - August 2020
  - Working on sponsored search auctions of CafeBazaar app marketplace
  - CafeBazaar is an Android app-store with more than 40 million users.

- **Quantitative analyst, Tosan Ofogh Hezareh**   Sep. 2019 - Jan. 2020
  - Working on stock price prediction with deep neural networks
  - Tosan Ofogh Hezareh is an investment management company that combines data-driven approaches with domain expertise.

- **Research intern, Cafe Bazaar Company**   Feb. 2019 - July 2019
  - Working on data-driven pricing in Divar online marketplace
  - Divar is an Iranian ads and E-commerce mobile app with more than 50 million users.

Honors and Awards	• Ph.D. Fellowship, London Business School (2020-2025)	
	• Bronze Medal in 23rd Iranian National Olympiad in Informatics, Tehran, Iran, September 2013	

Presentations

- Adaptive Approximation Schemes for Matching Queues
  - Tenth Marketplace Innovation Workshop   May 2025
  - Banff workshop on dynamic allocation and matching   Mar 2025
  - Swiss TCS winter school   Jan 2025
  - London Business School OM seminar   May 2024
- Spatial Matching under Multihoming
  - CIRM Conference "From matchings to markets"   Dec. 2023
  - INFORMS Annual Meeting   Oct. 2023
  - INFORMS Revenue Management & Pricing Conference   July 2023
  - INFORMS Applied Probability Society Meeting   June 2023
  - Eighth Marketplace Innovation Workshop (MIW)   May 2023
  - INFORMS Annual Meeting   Oct. 2022

Teaching Experience

- **Imperial College Business School**
  - Teaching assistant: Data wrangling and visualization
- **London Business School**
  - Teaching assistant: Decision Analytics and Modeling, Applied Statistics
- **Sharif Unievrsity of Technology**
  - Teaching assistant: Discrete Structures, Data Structures Design, Stochastic Processes, Engineering Probability and Statistics, Design of Algorithms, Data Mining
- **Iranian Young Scholars Club**
  - National Olympiad in Informatics Instructor in several high schools and Young Scholars Club

Skills

Programming Languages: C/C++ and STL, Java, R, Python, TensorFlow, PyTorch, Spark, LaTeX, Stata, Visual Basic, HTML.

Languages

Persian (Native), English (Fluent),
French (Intermediate)