Runshan Fu

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Education

Carnegie Mellon University, Pittsburgh, USA **2022**(expected)
Ph.D., Information Systems and Marketing
Committee: Kannan Srinivasan (Co-Chair), Param Vir Singh (Co-Chair), Yan Huang, Nitin Mehta

Shanghai University of Finance and Economics, Shanghai, China **2015**
Bachelor of Management, Information Management and Information Systems

University College London, London, UK **2014**
Visiting Student, Management Science and Innovation

Research Interest

Topics: Quantitative Marketing, Algorithmic Bias, Economics of AI, Fairness of ML, Crowd Lending
Methodologies: Structural Modeling, Analytical Modeling, Machine Learning

Job Market Paper

- **How Does Zestimate Affect Housing Market Outcomes Across Socio-economic Segments?**

Publication

- **"Un"Fair Machine Learning Algorithms** [SSRN]
  Runshan Fu, Manmohan Aseri, Param Vir Singh, Kannan Srinivasan
  Management Science, forthcoming
- **Crowds, Lending, Machine, and Bias** [SSRN]
  Runshan Fu, Yan Huang, Param Vir Singh
  Information Systems Research, 2021
- **AI and Algorithmic Bias: Source, Detection, Mitigation and Implications** [SSRN]
  Runshan Fu, Yan Huang, Param Vir Singh
  INFORMS Tutorials in Operations Research, 2020

Working Papers

- **Model Mis-specification and Algorithmic Bias** [arXiv]
  with Yangfan Liang and Peter Zhang

Conference Presentations

"Un"Fair Machine Learning Algorithms
- INFORMS Marketing Science Conference 2019
- INFORMS Annual Meeting 2019
- Thirteenth Annual FTC Microeconomics Conference 2020

Crowd Bias and Machine Learning: Evidence from Crowd Lending
- Workshop on Information Systems and Economics 2018
- INFORMS Annual Meeting 2018
- INFORMS Marketing Science Conference 2019

When Algorithms Promote Inequality
- INFORMS Marketing Science Conference 2020
- CMU Symposium on AI and Social Good 2020

TEACHING

Teaching Assistant

- Decision Analytics for Business and Policy (by Peter Zhang) — Spring 2020
- Digital Transformation (by Michael Smith) — Fall 2019, 2020
- Machine Learning for Problem Solving (by Leman Akoglu) — Spring 2017, 2018
- Business Intelligence & Data Mining (by Beibei Li) — Spring & Fall 2018
- Unstructured Data Analytics for Policy (by George Chen) — Spring 2018
- Unstructured Data Analytics (by George Chen) — Fall 2017
- Economic Analysis (by Karen Clay) — Fall 2017
- Economic Analysis (by Alessandro Acquisti) — Fall 2017
- Statistical Theory for Social and Policy Sciences (by Amelia Haviland) — Fall 2016

SERVICE

Ad-hoc reviewer for: Mangement Science, Information Systems Research, Production and Operations Management, Conference on Information Systems and Technology (CIST), International Conference in Information Systems (ICIS).

SKILLS

Python, Ruby, Matlab, R, SQL, MongoDB

REFERENCES

Kannan Srinivasan
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