# Runshan Fu

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## Education

**Carnegie Mellon University, Pittsburgh, USA** **2015 – present**
Ph.D., Marketing / Information Systems and Management

**Shanghai University of Finance and Economics, Shanghai, China** **2011 – 2015**
Bachelor of Management, Information Management and Information Systems

**University College London, London, UK** **2013 – 2014**
Visiting Student, Management Science and Innovation

## Research Interest

*Topics:* Algorithmic Bias, Economics of AI, Fair Machine Learning, Fintech
*Methodologies:* Structural Modeling, Analytical Modeling, Machine Learning

## Publication

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

## Working Papers

- **When Algorithms Promote Inequality: A Structural Analysis of the Impact of Zillow's Zestimate on Housing Market**
  with Yan Huang, Nitin Mehta, Param Vir Singh, Kannan Srinivasan

## Work in Progress

- **Empirical Risk Minimization Leads to Worst-Case Bias**
  with Yangfan Liang and Peter Zhang

## Conference Presentations

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

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

**When Algorithms Promote Inequality**
- CMU Symposium on AI and Social Good 2020
- INFORMS Marketing Science Conference 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, Conference on Information Systems and Technology (CIST), International Conference in Information Systems (ICIS).

## SKILLS

Python, Ruby, Matlab, SQL, MongoDB

## REFERENCES

**Kannan Srinivasan (co-chair)**
H.J. Heinz II Professor of Management, Marketing and Business Technologies
Tepper School of Business
Carnegie Mellon University
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**Param Vir Singh (co-chair)**
Professor of Business Technologies and Marketing
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**Yan Huang**
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**Nitin Mehta**
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University of Toronto
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