Su Jia **Last Update: Oct 11, 2024**

CONTACT

2 W Loop Rd,
New York, NY,
10044

Homepage: https://sjia1.github.io
Linkedin: https://www.linkedin.com/in/su-jia
✉ E-mail: sj693@cornell.edu
Google Scholar: scholar.google.com/sujia

EMPLOYMENT

Cornell University, NY 2022 - Present

- Assistant Research Professor (Non-tenure track),
- Center for Data Science for Enterprise and Society

EDUCATION

Carnegie Mellon University, Pittsburgh, PA 2017–2022

- Ph.D. in Algorithms, Combinatorics and Optimization (ACO)
- Home Department: Tepper School of Business
- Thesis: *Learning and Earning Under Noise and Uncertainty*
- Committee: R. Ravi (Chair), Andrew A. Li, Alan Scheller-Wolf and Sridhar Tayur

Stony Brook University, Stony Brook, NY 2014–2017

- M.S. in Applied Mathematics and Statistics

Tsinghua University, Beijing, China PR 2010–2014

- B.S. in Mathematics

AWARDS

- Winner, Dantzig Dissertation Award in Operations Research and Management Science, 2022
- Gerald L. Thompson Doctoral Dissertation Award in Management Science (CMU), 2022
- Winner, INFORMS Pierskalla Best Paper Award in Health Applications, 2021
- Egon Balas Award for Best Operations Research Student Paper (CMU), 2020
- William Larimer Mellon PhD Fellowship (CMU), 2017-2022

RESEARCH PAPERS

In reverse chronological order. "⋆" means the authors are listed alphabetically.

- **Mixing Is All You Need: Experimentation Under Non-Markovian, Non-sparse Interference**
  Su Jia, Nathan Kallus and Christina Lee Yu
  In preparation
- **Experimentation Under Dynamic Spatio-temporal Interference**
  Su Jia, Peter Frazier, Nathan Kallus and Christina Lee Yu
  In preparation
- **Clustered Switchback Experiments: Near-Optimal Rates Under Spatiotemporal Interference**
  Su Jia, Nathan Kallus and Christina Lee Yu
  Under review
- **From Stream to Pool: Dynamic Pricing for Customers with Diminishing Marginal Utility**
  (⋆) Titing Cui, Su Jia and Thomas Lavastida
  Under review, *Operations Research*
- **Multi-Armed Bandit with Interference**
  Su Jia, Peter Frazier and Nathan Kallus
  Under Review, *Annals of Statistics*

- **Short-Lived High-Volume Bandits**
  Su Jia, Nishant Oli, Paul Duff, Ian Anderson Andrew Li and R. Ravi
  Preliminary version appeared in the proceedings of ICML'23
  Major revision, *Operations Research*

- **Smooth Non-stationary Bandits**
  Su Jia, Qian Xie, Nathan Kallus and Peter Frazier.
  Preliminary version appeared in the proceedings of ICML'23
  Major/Immediate revision, *Operations Research*

- **Markdown Pricing for Unknown Parametric Demand Models**
  Su Jia, Andrew Li and R. Ravi
  Preliminary version appeared in the proceedings of NeurIPS'22
  Major Revision, *Management Science*

- **Toward a Liquid Biopsy: Greedy Approximation Algorithms for Active Sequential Hypothesis Testing**
  (⋆) Kyra Gan, Su Jia, Andrew Li and Sridhar Tayur
  Winner, 2021 INFORMS Pierskalla Best Paper Award
  Preliminary version appeared in the proceedings of NeurIPS'21
  Minor revision, *Management Science*

- **Effective Online Order Acceptance Policies For Omni-Channel Fulfillment.**
  (⋆) Su Jia, Jeremy Karp, R. Ravi and Sridhar Tayur
  Published, *Manufacturing and Service Operations Management* (MSOM), 2022

- **Markdown Pricing Under Unknown Demand**
  (⋆) Ningyuan Chen, Su Jia, Andrew Li and R. Ravi
  Egon Balas Award for Best CMU Student Paper in Operations Research, 2020
  Preliminary version appeared in the proceedings of NeurIPS'21
  Under Review, *Mathematics of Operations Research*

- **Optimal Decision Tree and Submodular Ranking with Noisy Outcomes**
  Su Jia, Fatemeh Navidi, Viswanath Nagarajan and R. Ravi
  Preliminary version appeared in the proceedings of NeurIPS'19
  Accepted, *Journal of Machine Learning Research*, 2024

- **Competitive Analysis for Online Scheduling in Software-Defined Optical WAN**
  Su Jia, Xin Jin, Golnaz Ghasemiesfeh, Jiaxin Ding and Jie Gao
  IEEE International Conference on Computer Communications 2017 (INFOCOM'17)

- **Network Optimization on Partitioned Pairs of Points.**
  Esther Arkin, Aritra Banik, Paz Carmi, Gui Citovsky, Su Jia, Matthew Katz, Tyler Mayer and Joseph S.B. Mitchell
  The 28th International Symposium on Algorithms and Computation (ISAAC'17)

- **Exact and Approximation Algorithms for Time-Window TSP**
  Su Jia, Jie Gao, Joseph S.B. Mitchell and Lu Zhao
  International Workshop on the Algorithmic Foundations of Robotics 2016 (WAFR'16)

Teaching

- **MBA Mathematical Preparation (Session 3), Instructor** June - July 2020
  Rating: 4.83 (respondents 6/23)

- **MBA Mathematical Preparation (Session 4), Instructor** July - Aug 2020
  Rating: 4.31 (respondents 13/22)

- **MBA Mathematical Preparation (Session 3), Instructor** June - July 2021
  Rating: 4.75 (respondents 23/45)

- **MBA Mathematical Preparation (Session 4), Instructor** July - Aug 2021
  Rating: 4.89 (respondents 9/28)

- **As Teaching Assistant**
  - **Operations Management** (MBA Core), Oct - Dec 2021
    with Prof. Sridhar Tayur
  - **Business Value Through Integrative Analytics** (MSBA), June - Aug 2020
    with Prof. R. Ravi

- **Financial Optimization** (MSCF), Aug - Oct 2020
  with Prof. Javier Peña
- **Optimization in Finance** (MBA elective), Jan - Mar 2020
  with Prof. Gérard Cornuéjols
- **Financial Optimization** (MSCF), Aug - Oct 2019
  with Prof. Javier Peña
- **Business Value Through Integrative Analytics** (MSBA), June - Aug 2019
  with Prof. R. Ravi
- **Optimization** (MBA Core), Aug - Oct 2019
  with Prof. Fatma Kılınç-Karzan
- **Applications of Operations Research** (MBA elective), Jan - Mar 2019
  with Prof. Andrew A. Li
- **Applications of Operations Research** (MBA elective), Aug - Oct 2018
  with Prof. Andrew A. Li
- **Computational Geometry** Jan - May 2016
  with Prof. Joseph S. B. Mitchell
- **Network Flows** Sep - Dec 2015
  with Prof. Esther Arkin
- **Combinatorics** Jan - May 2015
  with Prof. Xinyun Chen
- **Combinatorics** Sep - Dec 2014
  with Prof. Alan Tucker