

YANHAN (SAVANNAH) TANG

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Last update: April 13, 2025

EMPLOYMENT

Southern Methodist University (Cox School of Business)

Dallas, USA

Assistant Professor of Information Technology and Operations Management

August 2024 - present

EDUCATION

Carnegie Mellon University (Tepper School of Business)

Pittsburgh, USA

PhD in Operations Management, minor in Machine Learning & Statistics

August 2018 - May 2024

MS in Operations Management, minor in Optimization

August 2018 - May 2021

Carnegie Mellon University (School of Computer Science)

Pittsburgh, USA

MS in Machine Learning

January 2022 - May 2023

Tsinghua University (School of Economics and Management)

Beijing, China

BS in Information Management and Information Systems

September 2014 - July 2018

PUBLICATION

1. Multi-Armed Bandits with Endogenous Learning Curves: An Application to Split Liver Transplantation, 2024. **Yanhan (Savannah) Tang**, Andrew Li, Alan Scheller-Wolf, Sridhar Tayur.

Manufacturing & Service Operations Management 27(2):640-658. <https://doi.org/10.1287/msom.2022.0412>

- *Runner-up*, 2023 Decision Analysis Society Student Paper Award
- *Runner-up*, 2023 POMS CSOM Best Student Paper Competition
- *Second place*, POMS-HK 2023 Best Student Paper Competition
- *Finalist*, 2022 INFORMS Service Science Best Cluster Paper Award
- Presented at MSOM Healthcare SIG 2023.
- Media coverage: [Tepper Research Rundown](#), [Ph.D. Health Care Research Showcase](#), [Tepper Newsletter](#), SMU Research Excellence

2. Split Liver Transplantation: An Analytical Decision Support Model, 2024. [\[Link to paper\]](#)
Yanhan (Savannah) Tang, Alan Scheller-Wolf, Sridhar Tayur, Emily R. Perito, John P. Roberts.
Accepted for publication, Operations Research.

- *First place*, 2022 INFORMS DEI Best Student Paper Award
- *Winner*, INFORMS Public Sector Operations Research 2022 Best Paper Award
- *Finalist*, 2022 INFORMS IBM Best Student Paper Award Competition
- Presented at MSOM Healthcare SIG 2022.
- Media coverage: [Tepper Stories](#), [Health Care Initiative](#), [Diversity blog](#)

WORKING PAPERS

3. Optimizing Wearable Devices in Personalized Opioid Use Disorder Treatments Under Budget Constraint, 2025. [\[Link to paper\]](#)

Kyra Gan, **Yanhan (Savannah) Tang**, Alan Scheller-Wolf, Sridhar Tayur.

In preparation to be submitted.

4. When Is It Permissible For Artificial Intelligence To Lie? A Trust-Based Approach, 2024. [\[Link to paper\]](#)
 Joy Lu, Tae Wan Kim, Kyusong Lee, Zhaoqi Cheng, **Yanhan (Savannah) Tang**, John Hooker.
Submitted, Minds & Machines.
 - *Winner*, Society for Business Ethics (SBE) Annual Meeting 2021 Best Paper Award
 - *Finalist*, 2021 SBE Best Practical Solutions Award

WORK IN PROGRESS

5. Human-Artificial Intelligence Teaming and Effects of System Load on Child Welfare Screening, 2024.
[\[Link to extended abstract\]](#)
Yanhan (Savannah) Tang, Zoey Jiang, Alan Scheller-Wolf, Justine Galbraith, Lindsey Lacey.
 - Presented at INFORMS 2024, POMS 2023 & 2024, and Child Welfare Conference 2023 (Cornell)
 - Presented at Rotman Young Scholar Seminar Series 2024 (University of Toronto)
6. A Nested Bayesian Model for Inferring Customer Life-Changing Events Based on Financial Transaction Data, 2025. [\[Link to abstract\]](#)
Yanhan (Savannah) Tang, Alan Montgomery.
 - Presented at ISMS Marketing Science Conference 2023 and POMS 2023
7. Circular Solutions: Glass Bottle Reusing, Policy Impacts, and Environmental Outcomes, 2025.
 Neda Mirzaeian*, **Yanhan (Savannah) Tang*** (co-first).
8. Voices of the Vulnerable: Analyzing Social Media Discourse on Child Protective Services, 2025.
Yanhan (Savannah) Tang.
9. Opioid Use Disorders in Social Media Discussions, 2025.
 Amit Basu*, **Yanhan (Savannah) Tang*** (co-first).

OTHER PROJECTS

10. Efficiency, Fairness, and Stability in Peer-to-Peer Ridesharing, 2020. [\[Link to paper\]](#)
 Hoon Oh*, **Yanhan (Savannah) Tang*** (co-first), Zong Zhang, Alexander Jacquilet, Fei Fang.
 Technical report for *Mobility21*.

TEACHING AND EDUCATIONAL EXPERIENCE

2025 Summer	(Cox MBA) Data Mining and Machine Learning	Instructor
2024 Fall	(Cox MSBA) Decision Models	Instructor
2022 Summer	(Tepper Undergrad) Operations Management	Instructor
2021 Summer	(Tepper Undergrad) Operations Management	Grader
2020 ~ 2022 Fall	(Tepper MBA) Operations Management	TA
2020 Fall	(Tepper MBA) New Product Management	Grader
2020 Fall	(Tepper MBA) Marketing Management	Grader
2020 Summer	(Tepper Undergrad) Operations Management	Grader
2020 Spring	(Tepper MBA) Strategies in Information Markets	Grader
2020 Spring	(Tepper MBA) Sustainable Operations	TA

HONORS AND GRANTS

<i>Finalist</i> , 2024 PSOR Best Video Competition	INFORMS, 2024
William W. Cooper Doctoral Dissertation Award	CMU, 2024
<i>Runner-up</i> , 2023 Decision Analysis Society Student Paper Award	INFORMS, 2023
<i>Runner-up</i> , 2023 POMS CSOM Best Student Paper Competition	POMS, 2023
<i>Runner-up</i> , 2023 POMS-HK Best Student Paper Competition	POMS-HK, 2023
<i>First place</i> , 2022 DEI Best Student Paper Award	INFORMS, 2022
<i>Winner</i> , Public Sector Operations Research 2022 Best Paper Award	INFORMS, 2022
<i>Finalist</i> , IBM Best Student Paper Award Competition	INFORMS, 2022
<i>Finalist</i> , Service Science Best Cluster Paper Award	INFORMS, 2022
Litzenberger Family Fund	Tepper, 2022
PNC Presidential Fellowship	Tepper, 2022
PNC Center for Financial Services Innovation Fellowship	CMU, 2021 ~ 2023
Dean's Research Funding	Tepper, 2021
<i>Winner</i> , Society for Business Ethics Annual Meeting Best Paper Award	SBE, 2021
<i>Finalist</i> , Society for Business Ethics Best Practical Solutions Award	SBE, 2021
Health Care Initiative Funding	Tepper, 2020 ~ 2021
Graduate Student Assembly/Provost Conference Funds	CMU, 2020 & 2022
Graduate Crosswalk GuSH Grant (Co-PI)	CMU, 2019 ~ 2020
William Larimer Mellon Fellowship	CMU, 2018 ~ 2023

PROFESSIONAL SERVICE

SMU Cox ITOM seminar coordinator	2024 - present
Reviewer for <i>Management Science</i> and <i>Production and Operations Management</i>	2024 - present
PC member for ACM FAccT 2024 & 2025 and EAAMO 2024	2024 - present
Session chair, 2024 INFORMS Annual Meeting	2024
Co-chair, 2023 INFORMS PSOR Best Paper Award	2023
Session co-chair, 2023 INFORMS Healthcare Conference & Annual Meeting	2023
Advisor, CMU Tepper MBA/MSBA capstone projects	2021 ~ 2023
Student liaison, Health Analysis Society (HAS) of INFORMS	2021 ~ 2022
Treasurer, CMU INFORMS Student Chapter	2019 ~ 2020
Co-organizer, CMU INFORMS YinzOR Student Conferences	2019 ~ 2022

PROGRAMMING SKILLS AND LANGUAGES

Programming Language: Python, SAS, SQL, R
Language: English (fluent), Mandarin (native)