Angel Tsai-Hsuan Chung

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EDUCATION

Wharton School, University of Pennsylvania   Philadelphia, PA
PhD in Operations, Information, and Decisions   *Aug. 2022 – Present*

- Penn AI Fellow
- Associate Fellow, Leonard Davis Institute of Health Economics (Penn LDI)

University of Pennsylvania   Philadelphia, PA
Dual Masters in Statistics, Measurement, Assessment, and Research Technology   *Aug. 2019 – May 2021*
& International Educational Development

National Chengchi University   Taipei
Dual Bachelor's in Economics & Sociology (with honors)   *Sep. 2014 – Jun. 2019*

University of California, Berkeley   Berkeley, CA
Visiting Student (Fully funded by Study Abroad Program for Future Scholars)   *Aug. 2017 – May 2018*

RESEARCH INTEREST

AI & machine learning for healthcare and education, Human-AI collaboration, public sector operations

WORKING PAPERS

Chung, Angel T.-H., Abdulai, J., Bayoh, P., Sandi, L., Smart, F., Bastani*, H., & Bastani*, O. Improving Access to Essential Medicines with Decision-Aware Machine Learning. [paper link]
*Conditionally Accepted, **Nature** (Research Article).* *denote equal last author.

Chung, Angel T.-H., Zhang, B., Kung, L-C., Bastani*, H., Bastani*, O. Effective Personalized AI Tutors via LLM-Guided Reinforcement Learning. [paper link]
Available at SSRN. *denote equal last author.

WORK IN PROGRESS

Bastani, H., Bastani, O., **Chung, Angel T.-H.**. Incentive-Compatible Human-AI Collaboration via Adversarial Tasks.

REFEREED CONFERENCE PAPERS

Chung, Angel T.-H., Rostami, V., Bastani, H., & Bastani, O. (2022). Decision-Aware Learning for Optimizing Health Supply Chains. *Machine Learning for Health (ML4H).*

Chung, Angel T.-H. (2019). The legitimacy of nonprofit marketization: Changes and conflicting institutional logics. *Association for Research on Nonprofit Organizations and Voluntary Action (ARNOVA) Asia Conference: Transdisciplinary Forum of Junior Scholars.*

BOOK CHAPTER

Bastani, H., Bastani, O., & **Chung, Angel T.-H.** (2024). Optimizing Health Supply Chains in LMICs with Machine Learning: A Case Study in Sierra Leone. In C. S. Tang (Ed.), *Responsible and Sustainable Operations: The New Frontier* (pp. 187–202). Springer Nature Switzerland.

INVITED PAPER

Chung, Angel T.-H. (2025). Application of AI in Healthcare Management in Developing Countries (in Chinese). *Development Focus Quarterly*, Issue 20.

University of Pennsylvania

OIDD - Operations, Information and Decisions Department

- OIDD 6130 Online Business Models and the Information-Based Firm (MBA)   Spring 2026
  TA for Professor Daniel Rock

- OIDD 1010 Introduction to OID (Undergraduate)
  TA for Professors Gérard Cachon & Sergei Savin   Fall 2025
  TA for Professors Gérard Cachon & Alp Sungu   Fall 2024

- OIDD 321 Introduction to Management Science (Undergraduate)   Spring 2024
  TA for Professor Hamsa Bastani

EDUC - Graduate School of Education

- EDUC 501 Economics of Education in Developing Countries (Grad-level)   Spring 2021
  TA for Professor Amrit Thapa

- EDUC 738 Advanced Topics in Monitoring & Evaluation in IED (Grad-level)   Spring 2021
  TA for Professor Amrit Thapa

- EDUC 638 Principles of Monitoring & Evaluation in IED (Grad-level)   Fall 2020
  TA and Lab Instructor for Professor Amrit Thapa
  Received 2021 Penn Prize for Excellence in Graduate Teaching Award

HONORS & AWARD

Penn AI Fellowship	2026
1st Place, Service Science Best Student Paper Award	2025
2nd Place, Pierskalla Award for Best Paper in Healthcare	2025
Finalist, Bonder Scholarship	2025
Runner-Up, Best Paper Presentation at Early-Career Sustainable Operations Management Workshop	2025
1st Place, INFORMS Public Sector Operations Research Best Paper Award	2024
Finalist, MSOM Student Paper Competition	2024
2nd Place, INFORMS Doing Good with Good OR Student Paper Competition	2024
Global Scholar, Government Scholarship to Study Abroad, Ministry of Education	2022 - Present
Winner, Penn Prize for Excellence in Graduate Teaching Award	2021
Penn Graduate School of Education Merit Scholarship	2019

Research Grants

Penn Global Holman Africa Research & Engagement Fund	2025
Mack Institute Research Fellowship	2023, 2024, 2025
Wharton AI & Analytics Initiative Research Grant	2024, 2025
Wharton Global Initiatives Research Grant	2024
Tanoto ASEAN Initiative Research Grant	2024
George James Travel Award	2024, 2025
Analytics at Wharton Research Grant	2023

Conference Presentations & Invited Talks

2026 Workshop on Empirical Operations Management (WEOM); IMSI@UChicago; Operations Rookiepalooza @ Kellogg (Scheduled); POMS (Scheduled); INFORMS Healthcare (Scheduled); INFORMS (Scheduled)

2025 Early-Career Sustainable Operations Management Workshop; Georgia Tech CSE 8803 AI for Social Good; Development Focus Forum — Smart Healthcare and International Cooperation; Humanitarian OPErations (HOPE) Workshop; INFORMS

2024 INFORMS; Comparative and International Education Society (CIES); Workshop on AI & Analytics for Social Good; Marketplace Innovation Workshop (MIW); National Chiayi University; MSOM Healthcare SIG; National Taiwan University; Purdue Operations Conference; 2nd Philadelphia Operations and Technology Day; UPenn Undergraduate Women in AI; Rochester Institute of Technology (RIT) Graduate Seminar

2023 INFORMS; Symposium on Artificial Intelligence for Learning Health Systems (SAIL)

2022 INFORMS; Machine Learning for Health (ML4H)

Service

Session Chair POMS (2026); INFORMS Healthcare (AI in Healthcare) (2026); INFORMS (2023-2025)

Co-Chair 2025 INFORMS Public Sector Operations Best Paper Competition

Organizer Wharton OID PhD Student Seminar (2024-2025)

Reviewer M&SOM, Wharton Innovation Doctoral Symposium (WINDS)

Board Member Wharton Doctoral Council (2024-25); Wharton Society for the Advancement of Women in Business Academia (2025)

Mentorship

Mentor, UPenn CIS DATS5990 Data Science Thesis/Practicum	2025 Spring
Mentor, Project TYRA Young Researcher Association	2025
Mentor, Wharton PhD Peer Program	2024 & 2025
Mentor, Wharton DEI Program	2024
Mentor, Summer Undergraduate Mentored Research Program (SUMR)	2024

Professional Experiences

Research Assistant, Asian Development Bank (ADB)   Jan. – June 2021

– EdTech Sector at Sustainable Development & Climate Change Department

Research Assistant, Academia Sinica   Dec. 2018 – Aug. 2019

– Assited spatial and statistical analysis for the largest national social and cultural survey of rural development

Legislative Assistant, Taiwan Parliament   June – Sep. 2018 & Mar. – May 2019

– Supported legislator-at-large on the Finance Committee; led the Social Innovation Congress; and shaped the Social Enterprise Development Act

Others

Softwares: Python, R, STATA, SAS, SPSS, ArcGIS, GeoDa

Language: Mandarin Chinese-Native, English-Proficient

Interests: Trumpet player (classical), baseball, table tennis, badminton