Angel Tsai-Hsuan Chung

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Education

Wharton School, University of Pennsylvania — Philadelphia, PA
PhD in Operations, Information, and Decisions — *Aug. 2022 – May 2027 (Expected)*

- Penn AI Fellow
- Associate Fellow, Leonard Davis Institute of Health Economics (Penn LDI)
- Dissertation Committee: Hamsa Bastani (Advisor), Serguei Netessine (Chair), and Sergei Savin

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

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 Government's Study Abroad Program for Future Scholars) — *Aug. 2017 – May 2018*

Research Interest

AI for healthcare and education, Human-AI collaboration, public sector operations, global health

Journal Publication

Chung, A. T.-H., Abdulai, J., Bayoh, P., Sandi, L., Smart, F., Bastani*, H., & Bastani*, O. Improving Access to Essential Medicines with Decision-Aware Machine Learning.
Nature *(Research Article)* 653, pp 1178–1183 (2026). *denote equal last author.

Working Papers

Chung, A. T.-H., Zhang, B., Kung, L-C., Bastani*, H., Bastani*, O. Effective Personalized AI Tutors via LLM-Guided Reinforcement Learning. *denote equal last author.
Available at SSRN and arXiv. Under review, Operations Research

Chung, A. T.-H., Qin, J., Lin, P.-C., Bastani, H. When Productive AI Is Not Enough: Evidence from Outpatient Care in Somaliland.
Available at SSRN. Under review, Management Science

Bastani, H., **Chung, A. T.-H.**, Jeon, H., Yadav, P. (alphabetical). Grand Challenges for Operations Management: UN Sustainable Development Goal 3: Good Health and Well-Being.
Minor Revision, ***Manufacturing & Service Operations Management.***

Bastani, H., Bastani, O., **Chung, A. T.-H.** (alphabetical). Learning to Direct AI.
Draft available on request.

Refereed Conference Papers

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

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

Work In Progress

Chung, A. T.-H., Bastani, H., and Lin, P.-C. Human–AI Agentic Networks for Community Health in Somaliland. (IRB approved. Data collection in progress)

Chung, A. T.-H., Harari, M., Wong, M. (alphabetical) AI for Poverty Targeting. (Data analysis in progress)

Chung, A. T.-H., Harari, M., Wong, M. (alphabetical) Trust in AI for Resource Allocation Using Housing Images. (Lab experiment completed)

Honors & Awards

Teaching Award

- Winner, Penn Prize for Excellence in Graduate Teaching Award 2021

  University-wide Penn Prize recognizing exceptional teaching by graduate TAs, with only 10 awards made annually across Penn's 12 schools. Read student nomination feedback here.

Research Award and Scholarship

- Winner, 2026 Business for a Better World Dissertation Proposal Competition 2026

  One of three winning proposals selected in a competition spanning all business disciplines for its potential to benefit society, advance knowledge, and serve multiple stakeholders (endorsed by RRBM).

- Finalist (Winner TBD), INFORMS Minority Issue Forum (MIF) Best Paper Competition 2026
- Penn AI Fellowship 2026

  University-wide selection of 30 emerging AI researchers (graduate students and postdocs), with support for research, mentoring, and collaboration.

- 1st Place, INFORMS Service Science Best Student Paper Award 2025
- 2nd Place, Pierskalla Award for Best Paper in Healthcare 2025
- Finalist, INFORMS Health Application Society 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 2022–2024
- Penn Graduate School of Education Merit Scholarship 2019

Teaching

University of Pennsylvania

BEPP - Business Economics and Public Policy

- BEPP 2800 (UG) Applied Data Analysis — Fall 2026
  TA for Professor Yisroel Cahn

OIDD - Operations, Information and Decisions Department

- OIDD 6130 (MBA) Online Business Models and the Information-Based Firm — Spring 2026
  TA for Professor Daniel Rock
- OIDD 1010 (UG) Introduction to OID
  TA for Professors Gérard Cachon & Sergei Savin — Fall 2025
  TA for Professors Gérard Cachon & Alp Sungu — Fall 2024
- OIDD 321 (UG) Introduction to Management Science — Spring 2024
  TA for Professor Hamsa Bastani

EDUC - Graduate School of Education

- EDUC 501 (Grad-level) Economics of Education in Developing Countries — Spring 2021
  TA for Professor Amrit Thapa
- EDUC 738 (Grad-level) Advanced Topics in Monitoring & Evaluation in IED — Spring 2021
  TA for Professor Amrit Thapa
- EDUC 638 (Grad-level) Principles of Monitoring & Evaluation in IED — Fall 2020
  TA and Lab Instructor for Professor Amrit Thapa
  Received 2021 Penn Prize for Excellence in Graduate Teaching Award

Research Grants

Penn AI Fellowship	2026
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

Invited Talks & Guest Lectures

Invited Researcher, OpenAI Learning Lab @ San Francisco, CA	2026
Winner Presentation, B4BW Research Symposium @ Fort Collins, CO	2026
Speaker, Operations Rookiepalooza @ Kellogg	2026
Guest Speaker, EdTech Insider	2026
Speaker, Data Driven Discovery Initiative @ UPenn	2026

Guest Lecture, Georgia Tech CSE 8803: AI for Social Good 2025

Speaker, Development Focus Forum — Smart Healthcare and International Cooperation 2025

Guest Lecture, National Chiayi University 2024

Seminar Speaker, National Taiwan University 2024

Panelist, UPenn Undergraduate Women in AI 2024

Seminar Speaker, Rochester Institute of Technology (RIT) Graduate Seminar 2024

Conference Presentations

2026 Workshop on Empirical Operations Management (WEOM); IMSI Advances in Quantitative Medical Care @UChicago; NYC Operations Day (Student Day); POMS; Marketplace Innovation Workshop (MIW); Econometric Society (ESIF) Conference on Econ and AI+ML; MSOM; INFORMS Healthcare; AOM; Advances with Field Experiments Conf @UChicago; AI in Social Science @UChicago; EMPOM @Wharton; INFORMS (Scheduled)

2025 Early-Career Sustainable Operations Management Workshop; Humanitarian OPErations (HOPE) Workshop; INFORMS

2024 INFORMS; Comparative and International Education Society (CIES); Workshop on AI & Analytics for Social Good; Marketplace Innovation Workshop (MIW); MSOM Healthcare SIG; Purdue Operations Conference; 2nd Philadelphia Operations and Technology Day

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

2022 INFORMS; Machine Learning for Health (ML4H)

Service

Competition Co-Chair 2025 INFORMS Public Sector Operations Best Paper Competition

Judge 2026 INFORMS Behavioral Operations Best Working Paper Competition

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

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, Penn Graduate School of Education Mentorship Program 2026

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