Evelyn Xiao-Yue Gong

Positions Held

2023-present **Assistant Professor**, *Carnegie Mellon University*.
in Operations Management at the Tepper School of Business.

Summer 2022 **Research Intern**, *HelloFresh*.
Global AI Department. New York, NY.

Summer 2021 **Research Intern**, *Google Research*.
Operations Research Group. Cambridge, MA.

Summer 2020 **Research Intern**, *Microsoft Research AI*.
Cloud Operations Research Group. Redmond, WA.

Summer 2019 **Quantitative Analyst Intern**, *D.E. Shaw & Co.*.
Quant Commodities Group. New York, NY

Education

2017-2023 **Ph.D. in Operations Research**, *Massachusetts Institute of Technology*.

2013-2017 **B.S. in Honors Mathematics**, *New York University*.
Graduated with Summa Cum Laude.

Journal Publications

- **"Efficient Cloud Server Deployment Under Demand Uncertainty."**
  Rui Peng Liu, Konstantina Mellou, **Evelyn Xiao-Yue Gong**, Thomas Coffee, Beibin Li, Jeevan Pathuri, David Simchi-Levi and Ishai Menache.
  — *Manufacturing & Service Operations Management (Articles In Advance)*, 2025. [Link]
- **"Bandits atop Reinforcement Learning: Tackling Online Inventory Models With Cyclic Demands."**
  Evelyn Xiao-Yue Gong, David Simchi-Levi.
  — *Management Science, 70(9). pp. 5627-6482*, 2024. [Link]
- **"Online Assortment Optimization with Reusable Resources."**
  Evelyn Xiao-Yue Gong, Vineet Goyal, Garud Iyengar, David Simchi-Levi, Rajan Udwani, Shuangyu Wang.
  — *Management Science, 68(7). pp. 4772-4785*, 2022. [Link]
  — *Spotlight Talk at the INFORMS Revenue Management and Pricing Section Conference*, 2021.
- **"A Fast Maximum Flow Algorithm."**
  Jim Orlin, **Evelyn Xiao-Yue Gong**.
  — *Networks, 77(2). pp. 287-321*, 2020. [Link]
  — *Special Issue on Celebrating 50 Years of Networks*, 2021.
  — *Best Presentation Award* at MIT LIDS Student Conference, 2019.

Conference Papers

- **"Optimal Quantile Pure Exploration for Infinite-Armed Bandits."**
  Evelyn Xiao-Yue Gong, Mark Sellke.
  — *NeurIPS*, 2023. [Link]
- **"Provably More Efficient Q-Learning in the One-Sided-Feedback/Full-Feedback Settings."**
  Evelyn Xiao-Yue Gong, David Simchi-Levi.
  — *ICML Workshop (Theoretical Foundations of Reinforcement Learning)*, 2020. [Link]
- **"Efficient Entropy For Policy Gradient with Multi-Dimensional Action Space."**
  Yiming Zhang, Quan Ho Vuong, Kenny Song, **Evelyn Xiao-Yue Gong**, Keith W. Ross.
  — *ICLR Workshop*, 2018. [Link]

Select Submitted Papers

- **"How Not to Overpackage: AI for Sustainability in HelloFresh's Service Supply Chain."**
  Evelyn Xiao-Yue Gong, Michael Johnson.
  — Under Review at *Management Science*, 2025. [Link]

Select Media Coverage

- I appeared in this Business Insider article on Shein's plan to sell its supply chain tech on June 6, 2024.
  Shein wants to sell the supply-chain tech it used to disrupt online shopping. Retail experts say brands may have concerns.
- I appeared in this Wall Street Journal article on Material Suppliers' Next Moves on April 10, 2024.
  Materials Supplier Ferguson Seeks Faster Path to Construction Market.
- I appeared in this Forbes article on Sustainable Tourism on October 13, 2023.
  A Code Of Conduct For Tourists? In Kyoto, Japan, It's Working.

Select Invited Talks

Mar 6, 2025 **Boston University's Questrom School of Business**.
How Not to Overpackage: AI for Sustainability in HelloFresh's Service Supply Chain.

Aug 25, 2024 **Purdue Operations Conference**.
How Not to Overpackage: AI for Sustainability in HelloFresh's Service Supply Chain.

Aug 2, 2024 **Tsinghua University School of Economics and Management**.
How Not to Overpackage: AI for Sustainability in HelloFresh's Service Supply Chain.

Jun 6, 2024 **Lyft Rideshare Seminar**.
How Not to Overpackage: AI for Sustainability in HelloFresh's Service Supply Chain.

Apr 12, 2024 **Duke University Fuqua Operations Management Seminar**.
How Not to Overpackage? – Towards a Sustainable HelloFresh Service Supply Chain.

Apr 8, 2024 **CMU SQUALL Seminar**.
How Not to Overpackage? – Towards a Sustainable HelloFresh Service Supply Chain.

Aug 26, 2023 **YinzOR 2023 Conference**.
Provably Optimal Reinforcement Learning for Inventory Problems with Unknown Cyclic Demands

Jun 13, 2023 **Supply Chain Management in the Post-Pandemic and AI Age Conference**.
Data-Driven Decision Making in Operations Management

Apr 29, 2023 **University of Toronto Rotman OM&S Data Science Seminar**.
Bandits Atop Reinforcement Learning: Tackling Online Inventory Models With Cyclic Demands

Mar 18, 2022 **Wharton OID Seminar**.
Bandits Atop Reinforcement Learning: Tackling Online Inventory Models With Cyclic Demands

Oct 18, 2021 **MIT Data Science Lab Seminar**.
Bandits Atop Reinforcement Learning: Tackling Online Inventory Models With Cyclic Demands

Sep 24, 2021 **MIT ORC Student Seminar**.
Provably Optimal Reinforcement Learning for Online Inventory Models With Cyclic Demands

Jul 22, 2021 **Google Intern Research Talks**.
Provably Optimal Reinforcement Learning for Online Inventory Models With Cyclic Demands

Jun 30, 2021 **Spotlight Session at Annual INFORMS Revenue Management and Pricing Section Conference**.
Online Assortment Optimization with Reusable Resources

Apr 28, 2021 **MIT LIDS & Stats Tea Talk**.
Provably More Efficient Q-Learning in the One-Sided-Feedback/Full-Feedback Settings

Services

Journals **Management Science, Operations Research, Manufacturing & Service Operations Management, Mathematics of Operations Research**, *Reviewer*.

2025 **26th Conference on Integer Programming and Combinatorial Optimization (IPCO)**, *Reviewer*.

2024 **INFORMS Service Science Best Student Paper Award**, *Committee Member*.

2024 **CSAMSE Best Paper Competition**, *Judge*.

2024 **INFORMS MSOM 2024 Sustainable Operations SIG Conference**, *Reviewer*.

2023 **INFORMS Annual Meeting**, *Session Chair*.

2021 **INFORMS Annual Meeting**, *Session Co-Chair*.

Honors

- China's National Champion in Splendor hosted by Hunter Board Game Club 2024
- First Place in the Best Dissertation Competition, Supply Chain Management in the Post-Pandemic

and AI Age Conference 2023

- Accenture Fellowship 2022
- Bayer Women in Operations Research Scholarship Recipient, INFORMS Analytics Society 2021
- Best Presentation Award, MIT LIDS Student Conference 2019
- Grand Prize, MIT Lockheed Martin Tech for Truth Hackathon (Supply Chain Track), 2019
- Winner, MIT IDEAS Global Challenge 2018
- ARCC Best Social Good Hack Prize, MIT Bitcoin Hackathon 2018
- Summa Cum Laude 2017
- NYU Shanghai Provost's Award, NYU Shanghai 2017
- NYU President's Service Award, New York University 2016
- Resolution Fellowship, Resolution Project at Youth Assembly at the United Nations 2016
- Best Venture, NYU Reynolds Changemaker Challenge 2015

Teaching

Spring 2025 **CMU 70371 Operations Management**, *Undergraduate Core*.
Instructor.

Spring 2024 **CMU 70371 Operations Management**, *Undergraduate Core*.
Instructor.

Spring 2022 **MIT 1.267 Statistical Learning in Operations**, *PhD course*.
Teaching Assistant.

Spring 2021 **MIT 1.275/IDS.305 Business & Operations Analytics**, *MBA course*.
Teaching Assistant.

Spring 2021 **MIT 1.267 Statistical Learning in Operations**, *PhD course*.
Guest Lecturer.

Spring 2020 **MIT 15.077 Statistical Learning and Data Mining**, *PhD course*.
Teaching Assistant.

Jan 2019 **MIT 15.S60 Computing in Optimization & Statistics**, *Graduate course*.
Co-Instructor.

Jan 2019 **MIT 15.S41 Software Tools for Business Analytics**, *Undergrad course*.
Co-Instructor.

Fall 2016 **NYU MATH-UA 140 Linear Algebra**, *Undergrad course*.
Grader. NYU Courant Institute of Mathematical Sciences.

Spring 2016 **NYU MATH-UA 121 Calculus I**, *Undergrad course*.
Recitation Tutor. NYU Courant Institute of Mathematical Sciences.

Fall 2015 **NYU CSCI-UA 0061 Web Development & Programming**, *Undergrad course*.
Teaching Assistant. NYU Tandon School of Engineering.