

Publications

Chen, Q., & Al Kontar, R. (2025+). “The Traveling Bandit: A Framework for Bayesian Optimization with Movement Costs,” Accepted at Technometrics.

Chen, Q., Jiang, L., Qin, H., & Al Kontar, R. (2024). “Multi-agent collaborative Bayesian optimization via constrained Gaussian Processes.” *Technometrics*, 67(1), 32-45.

Chen, Q., Al Kontar, R., Nouiehed, M., Yang, X. J., & Lester, C. (2024). “Re-thinking cost-sensitive classification in deep learning via adversarial data augmentation.” *INFORMS Journal on Data Science*, 4(1), 1-19.

Tsai, C.-C., Kim, J. Y., **Chen, Q.**, Rowell, B., Yang, X. J., Al Kontar, R., Whitaker, M., & Lester, C. (2025). “Effect of artificial intelligence helpfulness and uncertainty on cognitive interactions with pharmacists: Randomized controlled trial.” *Journal of Medical Internet Research*, 27.

Kim, J. Y., Marshall, V. D., Rowell, B., **Chen, Q.**, Zheng, Y., Lee, J. D., Al Kontar, R., Lester, C., & Yang, X. J. (2025). “The effects of presenting AI uncertainty information on Pharmacists’ trust in Automated Pill Recognition Technology: Exploratory mixed subjects study.” *JMIR Human Factors*, 12.

Lester, C., Rowell, B., Zheng, Y., Co, Z., Marshall, V., Kim, J. Y., **Chen, Q.**, Al Kontar, R., & Yang, X. J. (2025). “Effect of uncertainty-aware AI models on pharmacists’ reaction time and decision-making in a web-based mock medication verification task: Randomized controlled trial.” *JMIR Medical Informatics*, 13.

Zheng, Y., Rowell, B., **Chen, Q.**, Kim, J. Y., Al Kontar, R., Yang, X. J., & Lester, C. A. (2023). “Designing human-centered AI to prevent medication dispensing errors: Focus group study with Pharmacists.” *JMIR Formative Research*, 7.

Preprints

Chen, Q., & Al Kontar, R. (2025+). “Online Learning of Optimal Sequential Testing Policies,” Under Review at Operations Research

Proposals

Contributed to proposal: NSF CDS&E: *Collaborative Research: Digital Twin-Enabled Closed-Loop Discovery of Enhanced Interfacial Superconductivity*. Budget: \$975,000; Period: 03/26–02/29; *under submission*.

Awards

IOE Bonder fellowship for dissertation research in applied OR	2023
Rackham Conference Travel Grant	2023 - 2025
Allias/Holzman Teaching Fellowship (University of Pittsburgh)	2019
Dean’s Honor List (University of Pittsburgh)	2018, 2019

	Dean's List (Sichuan University)	2016, 2017
Teaching experience	Instructor of Record, University of Michigan IOE 570: Experimental Design (Graduate Level) Teaching Evaluations: 4.4/5; response rate: 90% (63/70)	Winter 2025
	Graduate Student Instructor, University of Michigan IOE 265: Probability and Statistics for Engineers Teaching Evaluations: 4.4/5; response rate: 41% (53/129)	Fall 2022
	Grader, University of Pittsburgh ENGR 0020: Probability and Statistics for Engineers	Fall 2019
	Teaching Assistant, Golden Education Machine Learning in Python / Introduction to Investment Banking	Summer 2020
Service and outreach	IOE Graduate Student Coordinator , University of Michigan	2024-2026
	Board Member , IOE Student Leadership Board, University of Michigan	2025
	Organizing Committee Member , MSSISS	2024
	Social Committee Chair , UMichigan INFORMS Student Chapter	2025
	Mentor , IOE Graduate Application Mentoring Program (GAMP)	2024
	Journal Referee: • Institute of Industrial and Systems Engineers (IISE) Transactions • IEEE Transactions on Knowledge and Data Engineering (TKDE)	
Education	University of Michigan PhD Student, Industrial and Operations Engineering Advisor: Dr. Raed Al Kontar. <i>GPA: 4.0.</i>	Ann Arbor, MI Jan. 2023 – present
	University of Michigan M.S.E. in Industrial and Operations Engineering M.A. in Applied Economics <i>GPA: 4.0.</i>	Ann Arbor, MI Sept. 2020 – April 2023 Sept. 2021 – April 2023
	University of Pittsburgh B.S. in Industrial Engineering, minor in Economics Summa Cum Laude, <i>GPA: 3.86.</i>	Pittsburgh, PA Sept. 2018 – April 2020

	Sichuan University B.E. in Industrial Engineering Outstanding Graduate, <i>GPA: 3.73</i> .	Chengdu, China Sept. 2016 – June 2020
Industry experience	Guotai Junan Securities , Investment Banking Division IBD Intern	Shanghai, China Summer 2019
	PwC , Strategy& Management Consulting PTA Intern	Beijing, China Summer 2021
Professional Society Memberships	Student Member , INFORMS	2023-2025