

HAOMING LI

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EDUCATION

- Ph.D., Computer Science 2020–
University of Southern California, CA, USA (Advisor: Bistra Dilkina)
- M.S., Economics and Computation 2018–2020
Duke University, NC, USA (Advisor: Vincent Conitzer)
- B.S., Computer Science and Economics, *summa cum laude* 2014–2018
Rensselaer Polytechnic Institute, NY, USA (Advisor: Lirong Xia)

RESEARCH

- Burak Bartan, Haoming Li, Harris Teague, Christopher Lott, Bistra Dilkina. 2023. Moccasin: Efficient Tensor Rematerialization for Neural Networks. In *Proceedings of the 40th International Conference on Machine Learning (ICML 2023)*.
- Haoming Li, Aaron Ferber, Bistra Dilkina. 2021. Learning to Generate Graphs with Combinatorial Objectives. Presented at INFORMS Annual Meeting 2021.
- Anilesh Krishnaswamy, Haoming Li, David Rein, Hanrui Zhang, Vincent Conitzer. 2021. Classification with Strategically Withheld Data. In *Proceedings of the 35th AAAI Conference on Artificial Intelligence (AAAI 2021)*, 5514-5522.
- Haoming Li, Sujoy Sikdar, Rohit Vaish, Junming Wang, Lirong Xia and Chaonan Ye. 2019. Minimizing Time-to-Rank: A Learning and Recommendation Approach. In *Proceedings of the 28th International Joint Conference on Artificial Intelligence (IJCAI 2019)*, 1408-1414. Macau, China.
- Zhibing Zhao, Haoming Li, Junming Wang, Jeffrey O. Kephart, Nicholas Mattei, Hui Su and Lirong Xia. 2018. A Cost-Effective Framework for Preference Elicitation and Aggregation. In *Proceedings of the 34th Conference on Uncertainty in Artificial Intelligence (UAI 2018)*, 446-456. Monterey, CA, USA.

AWARDS AND HONORS

- USC Viterbi Fellowship 2020–2021
- Duke Economics Master's Scholarship 2018–2020

PROFESSIONAL SERVICE

- Workflow Co-Chair, AAAI 2020
- Reviewer / Program Committee Member, AAAI, AISTATS, CPAIOR, ICLR, ICML, NeurIPS
- Student Leader, AI Institute for Advances in Optimization 2023–2024
- Co-Organizer, USC CS Theory Lunch 2020–2021

TEACHING

- Teaching Assistant, CSCI 461 (AI for Sustainable Development) at USC Fall 2021
- Teaching Assistant, CPS 330 (UG algorithms) at Duke Spring 2019, Fall 2019, Spring 2020
- Mentor (UG TA), CSCI 2300 (UG algorithms) at RPI Fall 2016, Spring 2017, Fall 2017

INDUSTRY EXPERIENCE

- R&D Intern Summer 2022
Qualcomm AI Research, San Diego, CA, USA (Project: Rematerialization for neural networks)
- R&D Intern Summer 2021
Qualcomm AI Research, San Diego, CA, USA (Project: ML for the sequential ordering problem)
- SDE Intern Summer 2016
Tencent America, Palo Alto, CA, USA (Project: Synchronize a database with MLS providers)
- SDE Intern Summer 2015
FiberHome Telecommunication, Nanjing, PRC (Project: Optimize pattern-matching algorithms)

NOTABLE GRAD-LEVEL COURSEWORK

- **Computer Science:**
 - Algorithms for Decision Making (Duke CS)
 - Approximation Algorithms (RPI CS)
 - Randomized Algorithms (USC CS)
 - Computational Complexity (Duke CS)
 - Algorithm Design (Duke CS)
- **AI and ML:**
 - Natural Language Processing (USC CS)
 - Computational Microeconomics (Duke CS)
 - Analytics for Social Impact (USC Engr)
- **Economics and Beyond:**
 - Game Theory with Application (Duke Econ)
 - Adv. Microeconomics Theory (Duke Econ)
 - Motives, Goals, and Social Behavior (Duke Psyc)
 - History and Philosophy of Science (Duke Phil/Hist)
 - History of Economic Thought (Duke Econ/Hist)
- **Math and OR:**
 - Graph Theory (RPI CS/Math)
 - Combinatorial Optimization (USC Engr)
 - Linear Programming (USC Engr)