

Xin Jiang

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Education

Ph.D. Electrical and Computer Engineering

09/2017 – 06/2022 (expected)

University of California, Los Angeles

Los Angeles, CA

- Thesis: Bregman first-order proximal splitting methods: Theory and Applications
- Advisor: Lieven Vandenbergh

M.S. Electrical and Computer Engineering

09/2015 – 06/2017

University of California, Los Angeles

Los Angeles, CA

- Thesis: Minimum rank positive semidefinite matrix completion with chordal sparsity pattern
- Advisor: Lieven Vandenbergh

B.Eng. Electronic and Communication Engineering

09/2012 – 07/2015

The University of Hong Kong

Hong Kong, China

- First class honors. Minor in Finance
- Thesis: Power optimization in hybrid localization mechanism for logistic applications
- Advisor: Victor O. K. Li

Awards and Honors

Summer Mentored Research Fellowship (SMRF)	2021
Ph.D. Preliminary Exam Fellowship	2018
Dean's Honors List	2013 – 2015
URFP Research Internship Award	2015
Tso Chiu Kit Scholarship	2015
Kai Chong Tong Scholarship	2013 – 2014
Chiap Hua Cheng's Foundation Scholarship	2013
S. Y. King Prize	2012
HKU Worldwide U/G Student Exchange Scholarship	2012

Publications

Preprints

- [P1] **X. Jiang** and L. Vandenbergh. Bregman three-operator splitting methods. 2021.

Journal articles

- [J1] **X. Jiang** and L. Vandenbergh. Bregman primal-dual first-order method and application to sparse semidefinite programming. *Computational Optimization and Applications*, 2021.

Conference Proceedings (* as equal contribution)

- [C1] J. Xu, Y. Sun, **X. Jiang**, Y. Wang, C. Wang, J. Lu, and Y. Yang. Blindfolded attackers still threatening: Strict black-box adversarial attacks on graphs. In *Proceedings of the 36th Conference on Artificial Intelligence (AAAI)*, 2022.
- [C2] J. Xu, Y. Yang, J. Chen, **X. Jiang**, C. Wang, J. Lu, and Y. Sun. Unsupervised adversarially robust representation learning on graphs. In *Proceedings of the 36th Conference on Artificial Intelligence (AAAI)*, 2022.
- [C3] Z. Jiao*, Z. Zhang*, **X. Jiang**, D. Han, S.-C. Zhu, Y. Zhu, and H. Liu. Consolidating kinematic models to promote coordinated mobile manipulations. In *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2021.

Invited Talks

Primal–dual proximal methods with Bregman distances <i>EUROPT Workshop on Continuous Optimization</i>	07/2021 <i>Toulouse (virtual)</i>
Bregman proximal methods for semidefinite optimization <i>SIAM Conference on Optimization (OP21)</i>	07/2021 <i>Virtual</i>
Bregman primal–dual first-order methods <i>INFORMS Annual Meeting</i>	01/2020 <i>Virtual</i>

Teaching and Mentorship

Teaching Experience

Teaching Assistant (five times) <i>ECE236B Convex Optimization (five times)</i>	2017 – 2022 <i>UCLA</i>
Teaching Assistant (four times) <i>ECE133A Applied Numerical Computing</i>	2017 – 2021 <i>UCLA</i>
Teaching Assistant <i>ECE236C Optimization Methods for Large-Scale Systems</i>	Spring 2019 <i>UCLA</i>
Teaching Assistant <i>ECE205A Matrix Analysis for Scientists and Engineers</i>	Fall 2020 <i>UCLA</i>

Mentorship Experience

Summer Research Program Supervisor <i>Summer Undergraduate Research Program (SURP)</i> <ul style="list-style-type: none">Project: Solving large-scale non-metric multidimensional scaling using ADMMCo-supervised (with Prof. Lieven Vandenbergh) three undergraduate students on a summer research project	06/2021 – 08/2021 <i>UCLA</i>
Academic Mentor <i>Research in Industrial Projects for Students (RIPS) Program</i> <ul style="list-style-type: none">Project: Obstacle avoidance of autonomous vehiclesGuided four international undergraduates to work on an industrial projectCommunicated with industrial sponsor Amazon for technical assistance	06/2019 – 08/2019 <i>IPAM, UCLA</i>

Reviewing

Journal reviewer

Mathematical Programming · SIAM Journal on Optimization · Mathematics of Operations Research ·
IEEE Transactions on Pattern Analysis and Machine Intelligence

Conference reviewer

International Conference on Machine Learning (ICML) · AAAI Conference on Artificial Intelligence (AAAI) ·
International Conference on Learning Representations (ICLR)

Experience

Research Internship <i>Damo Academy, Alibaba</i> <ul style="list-style-type: none">Work in the Decision Intelligence (Foundation) Group, supervised by Wotao YinParticipated in designing MindOpt optimization solverDeveloped algorithms for bottom-level numerical linear algebra, and re-designed data structure	01/2020 – 09/2020 <i>Seattle, WA</i>
IEEE Eta Kappa Nu (HKN) <i>Department of Electrical and Electronic Department, HKU</i> <ul style="list-style-type: none">Participated as a student member of Lambda Iota Chapter, IEEE-HKN, a student honor society of IEEEConducted tutorials to mentor juniors on their coursework	01/2014 – now <i>Hong Kong, China</i>