

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

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| 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	07/2021
<i>EUROPT Workshop on Continuous Optimization</i>	<i>Toulouse (virtual)</i>
Bregman proximal methods for semidefinite optimization	07/2021
<i>SIAM Conference on Optimization (OP21)</i>	<i>Virtual</i>
Bregman primal–dual first-order methods	11/2020
<i>INFORMS Annual Meeting</i>	<i>Virtual</i>

Teaching and Mentorship

Teaching Experience

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

Mentorship Experience

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

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