

Jiaming Liang

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Research Interests

Convex and nonconvex optimization; Machine learning theory; Online learning; Approximation algorithms; Combinatorial optimization; Convex geometry; Spectral graph theory; Numerical methods.

Education

2017-now Ph.D. Candidate in Operations Research, Georgia Institute of Technology
2015-2017 M.S. in Computational Science & Engineering, Georgia Institute of Technology
2011-2015 B.S. in Applied Mathematics and B.S. in Ocean Engineering, Shanghai Jiao Tong University

Publications

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| 2018 | Jiaming Liang and Renato D.C. Monteiro. A doubly accelerated inexact proximal point method for nonconvex composite optimization problems. <i>arXiv preprint arXiv:1811.11378</i> , 2018 |
| 2015 | Jiaming Liang and Zhiliang Lin. Ship roll behaviour in large amplitude beam waves. In <i>ASME 2015 34th International Conference on Ocean, Offshore and Arctic Engineering</i> . American Society of Mechanical Engineers, 2015 |
| | Jifeng Cui, Jiaming Liang, and Zhiliang Lin. Stability analysis for periodic solutions of the van der pol–duffing forced oscillator. <i>Physica Scripta</i> , 91(1):015201, 2015 |

Professional Experience

- Summer Research Associate in NEC Labs America, Princeton, NJ, May-August 2017
 - Distributed Temperature Sensing (DTS) system spatial resolution improvement by impulse response and optimization algorithms
 - Developed algorithms to greatly improve the DTS spatial resolution from 1m to 20cm
- Software Engineer Intern in Schlumberger, Houston, TX, May-August 2016
 - Exploratory Data Analysis & Interpretation of Geophysical Data

Teaching

2016	Teaching assistant for CX/MATH 4640 Numerical Analysis I
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Awards

2015	Outstanding Graduate of Shanghai Jiao Tong University
2014	Honorable Mention of Interdisciplinary Contest In Modeling (MCM/ICM)
2014	China Shipping Industry Scholarship
2009	First Prize, National Olympiad in Mathematics in Provinces

Invited Talks

- A Doubly Accelerated Inexact Proximal Point Method for Nonconvex Composite Optimization Problemgh
 - ISyE PhD Student Seminar in Georgia Tech, Atlanta, GA, November 2018
 - DOS Seminar in Georgia Tech, Atlanta, GA, November 2018
- Ship Roll Behaviour in Large Amplitude Beam Waves
 - International Conference on Ocean, Offshore and Arctic Engineering, St. Johns, NL, Canada, June 2015

References

- Dr. Renato D.C. Monteiro (Advisor)
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Georgia Institute of Technology
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- Dr. Guanghui (George) Lan
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