Palma London

Computing and Mathematical Sciences
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Research Interests

Convex Optimization; Distributed and Parallel Optimization Algorithms; Online Algorithms; Optimization in Networked Systems.

Education

Ph.D. Computer Science, California Institute of Technology. 2017 – present
Advisor: Adam Wierman

M.S. Computer Science, California Institute of Technology. 2014 – 2017

B.S.E.E. Electrical Engineering, University of Washington. 2009 – 2014
Undergraduate Research Advisor: Maryam Fazel

B.S. Mathematics, University of Washington.

Awards and Honors

Amazon Fellowship in Artificial Intelligence, 2018 – 2019

NSF *Graduate Research Fellowship Program* (GRFP), 2014 – 2017

Ranked 1st in Caltech's Computer Science Ph.D. Qualification Exam, 2015

Outstanding Undergraduate Research Assistant Award, University of Washington, 2013

Mary Gates Research Scholarship, University of Washington, 2013

Research Experience

Research Assistant, California Institute of Technology. 2015 – present
Advisor: Adam Wierman

Undergraduate Research Assistant, University of Washington. 2012 – 2014
Maryam Fazel (EE), Daniela Witten (Statistics), Su-In Lee (CSE, Genome Sciences)
Worked on convex optimization approach to learn Gaussian graphical models.

Undergraduate Research Position, University of Washington. 2011 – 2012
Advisor: Maryam Fazel (EE)

Publications

P. London, S. Vardi, A. Wierman. Logarithmic Communication for Distributed Optimization in Multi-Agent Systems. *Proceedings of the ACM on Measurement and Analysis of Computing Systems* (POMACS), 3(3):1–29, 2019.

P. London, S. Vardi, A. Wierman, H. Yi. A Parallelizable Acceleration Framework for Packing Linear Programs. *Association for the Advancement of Artificial Intelligence* (AAAI) 2018.

P. London, N. Chen, S. Vardi, A. Wierman. Distributed optimization via local computation algorithms. ACM SIGMETRICS Performance Evaluation Review 45 (2), 30-32, 2017.

X. Ren, **P. London**, J. Ziani, A. Wierman. Joint Data Purchasing and Data Placement in a Geo-Distributed Data Market. Proceedings of the 2016 ACM SIGMETRICS International Conference on Measurement and Modeling of Computer Science, 2016.

K.M. Tan, **P. London**, K. Mohan, S.-I. Lee, M. Fazel, D. Witten. Learning Graphs with Hubs. *Journal of Machine Learning Research* (JMLR), 15 (Oct): 3297-3331, 2014.

K. Mohan, **P. London**, M. Fazel, D. Witten, S.-I. Lee. Node-Based Learning of Multiple Gaussian Graphical Models. *Journal of Machine Learning Research* (JMLR), 15 (Feb): 445-488, 2014.

Invited talks and synergistic activities

Informs (Inst. for Oper. Res. and the Management Sciences), Seattle, WA, Oct. 2019
Cornell ORIE (Oper. Research and Info. Engin.) Young Researchers Workshop, Oct. 2019
Amazon AWS Artificial Intelligence Lab at Caltech, Apr. 2019
Purdue University, Computer Science Colloquium, Oct. 2018
AAAI 2018 (Asso. for the Adv. of Artificial Intelligence), New Orleans, LA, Feb. 2018
MAMA 2017 Workshop at ACM SIGMETRICS, Univ. Of Urbana-Champagne, June 2017

Teaching

Computer Science Teaching Assistant, California Institute of Technology
CS 21: Decidability and Tractability, Winter 2016

Computing

Python, Matlab, C++, Java, Verilog
Linux, Mac, Windows

References

Professor Adam Wierman
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Professor Steven Low
Professor of Computing and Mathematical Sciences, California Institute of Technology
(626) 395-6767, slow@caltech.edu

Professor Yisong Yue
Assistant Professor of Computing and Mathematical Sciences, California Institute of Technology
(626) 395-2464, yyue@caltech.edu

Professor Maryam Fazel
Professor of Electrical and Comp. Eng., Adj. with Math and Statistics, University of Washington
(206) 616-4781, mfazel@uw.edu