## Yao Li

Address: Michigan State University C102 Wells Hall

Department of Mathematics 619 Red Cedar Road

Department of Computational Mathematics, East Lansing, MI 48824

Science and Engineering **Email:** liyao6@msu.edu

Website: yaoleoli.github.io

#### **Education**

2017-Pres. Ph.D. - Michigan State University (MSU), East Lansing, MI, USA

Major: Applied Mathematics, expected 2022

Minor: Computational Mathematics, Science and Engineering, expected 2022

Advisor: Prof. Ming Yan

**2013-2017** B.S. - Southern University of Science and Technology (SUSTech), Shenzhen, China

Major: Pure and Applied Mathematics, summa cum laude, 2017

Project: On ADMM for Three Separable Operators and Accelerated Algorithms

Advisor: Prof. Bingsheng He

#### **Honors & Awards**

Apr 2019 2018-2019 Award for Outstanding Early Student in CMSE, MSU

Apr 2019 Douglas A. Spragg Endowed Fellowship in Mathematics, MSU

May 2016 Eminence Scholarship, 2nd Prize, SUSTech

**2013-2017** College Start-up Scholarship, SUSTech

#### **Research Interests**

Convex Optimization, Large-scale Optimization, Decentralized Algorithm

## **Professional Experience**

FS 2019 Teaching Assistant: MTH133, Calculus II, MSU

**US 2019** Graduate Intern: Applied Machine Learning Summer Research Fellowship,

Los Alamos National Laboratory

Project: Matrix Equilibration for Preconditioned ADMM

Mentor: Brendt Wholberg, Youzuo Lin

SS 2019 Teaching Assistant: MTH314, Matrix Algebra I, MSU FS 2018 Grader: MTH847, Part Differential Equations I, MSU

**2017-2018** Math Learning Center Tutor, *MSU* 

# **Workshops & Conferences**

**Jun 2019** Workshop on Recent Developments on Mathematical/Statistical approaches in DAta Science (MSDAS), The University of Texas at Dallas, TX

#### **Talks & Presentations**

**Aug 2019** Title: *Preconditioned ADMM on (Convolutional) Sparse Coding* Los Alamos National Laboratory, Los Alamos, NM

#### **Publications**

[1] **Li, Yao** and Ming Yan. On linear convergence of two decentralized algorithms. *arXiv preprint arXiv:1906.07225*, 2019.

## Languages & Skills

LATEX, MATLAB, Python, C/C++, Java