

EDUCATION

Georgia Institute of Technology, Atlanta, GA

Present

PhD Student in Operations Research

Advised by Guanghui (George) Lan

Courses: Linear/Nonlinear/Discrete Optimization, Stochastic Processes, Simulation, Reinforcement Learning

Johns Hopkins University, Baltimore, MD

Dec. 2022

Master of Science and Engineering in Applied Mathematics and Statistics; GPA: 4.0/4.0

Thesis: *First-Order Methods for Nonsmooth Nonconvex Functional Constrained Optimization with or without Slater Points*

Advised by Benjamin Grimmer

Courses: Nonlinear/Stochastic/Large-Scale Optimization, Statistics, Control Theory

Sun Yat-Sen University, Guangzhou, China

Jun. 2021

Bachelor of Science in Information and Computing Science; GPA: 3.7/4.0

Thesis: *On an FFHE-Inspired Method for Effectively Solving Differential Riccati Equations*

Advised by Tao Wang

Courses: Real Analysis, Linear Algebra, Numerical Methods, Statistics, Optimization, Machine Learning, Data Mining

PAPERS IN PROGRESS

“Goldstein Stationarity in Lipschitz Constrained Optimization”

Benjamin Grimmer, **Z. Jia**

2023

“First-Order Methods for Nonsmooth Nonconvex Functional Constrained Optimization with or without Slater Points”

Z. Jia, Benjamin Grimmer

2022

“Switch Updating in SPSA Algorithm for Stochastic Optimization with Inequality Constraints”

Z. Jia, Ziyi Wei, James C. Spall

2022

PUBLICATIONS

“SPSA-Based Switch Updating Algorithm for Constrained Stochastic Optimization”

Z. Jia, Ziyi Wei

Conference on Information Science and Systems 2023

PATENTS

“Mechanical Arm Motion Planning Method based on Fast and Flexible Full-Pure Embedding Thought”

China Patent 202110154750.4

Tao Wang, Yuning Ding, **Z. Jia**, Zi'ang Fang

Issued 02/04/2021

ACADEMIC SERVICE

Journal Reviewing:

Computational Optimization and Applications

Conference Reviewing:

Mediterranean Conference on Control and Automation 2023

Conference on Information Science and Systems 2023

American Control Conference 2023

AWARDS

JHU Applied Mathematics and Statistics Master's Research Award

Apr. 2023

Ranked 6th in Datathon@LISH

Feb. 2022

Third Prize in China Undergraduate Mathematical Contest in Modeling (top 40%)

Sept. 2019

SKILLS

Languages: Chinese-Mandarin (native), English (fluent)

Programming: C, C++, Python, Matlab, SQL, R