Zhichao Jia

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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, Control Theory, Statistics

Sun Yat-Sen University, Guangzhou, China

Jun. 2021

2022

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 Constrained Optimization" Z. Jia , Benjamin Grimmer	2022
"Switch Updating in SPSA Algorithm for Stochastic Optimization with Inequality Constraints"	

Publications

Z. Jia, Ziyi Wei, James C. Spall

"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

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