

## EDUCATION

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<b>Georgia Institute of Technology</b> , Atlanta, GA PhD Student in Operations Research Advised by Guanghui (George) Lan	Present
<b>Johns Hopkins University</b> , Baltimore, MD Master of Science and Engineering in Applied Mathematics and Statistics Thesis: <i>First-Order Methods for Nonsmooth Nonconvex Functional Constrained Optimization with or without Slater Points</i> Advised by Benjamin Grimmer	Dec. 2022
<b>Sun Yat-Sen University</b> , Guangzhou, China Bachelor of Science in Information and Computing Science Thesis: <i>On an FFHE-Inspired Method for Effectively Solving Differential Riccati Equations</i> Advised by Tao Wang	Jun. 2021

## PUBLICATIONS

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“First-Order Methods for Nonsmooth Nonconvex Functional Constrained Optimization with or without Slater Points” <b>Z. Jia</b> , Benjamin Grimmer	SIAM Journal on Optimization 2025
“Goldstein Stationarity in Lipschitz Constrained Optimization” Benjamin Grimmer, <b>Z. Jia</b>	Optimization Letters 2023

## PAPERS IN PROGRESS

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“Nearly Optimal $L_p$ Risk Minimization” <b>Z. Jia</b> , Guanghui Lan, Zhe Zhang	2024
“Switch Updating in SPSA Algorithm for Stochastic Optimization with Inequality Constraints” <b>Z. Jia</b> , Ziyi Wei, James C. Spall	2022

## TALKS

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“Nearly Optimal $L_p$ risk minimization” International Conference on Continuous Optimization (ICCOPT), Los Angeles, USA INFORMS Annual Meeting, Seattle, USA	Jul. 2025 Oct. 2024
“First-Order Methods for Nonsmooth Nonconvex Functional Constrained Optimization with or without Slater Points” International Symposium on Mathematical Programming (ISMP), Montréal, Canada	Jul. 2024

## PATENTS

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“Mechanical Arm Motion Planning Method based on Fast and Flexible Full-Pure Embedding Thought” China Patent 202110154750.4 Tao Wang, Yuning Ding, <b>Z. Jia</b> , Zi’ang Fang	Issued 02/04/2021
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## ACADEMIC SERVICE

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Journal Review:  
*Computational Optimization and Applications*  
*Journal of Optimization Theory and Applications*  
*Mathematical Programming*  
*Optimization Letters*  
*SIAM Journal on Optimization*

AWARDS

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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

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Languages: Chinese-Mandarin (native), English (fluent)  
Programming: C, C++, Python, Matlab, SQL, R