# Thabo Samakhoana

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Education	Johns Hopkins University PhD in Applied Mathematics and Statistics	2020 - 2026 (expected)
	Johns Hopkins University  MSc in Applied Mathematics and Statistics	2020 - 2022
	Brown University BSc in Applied Mathematics	2014 - 2018
Employment	Johns Hopkins University PhD Research Assistant Schrodinger, Inc	2021 - Present
	Machine Learning Research Intern	2023
	Harvard Medical School Research Assistant in Health Care Policy	2018 - 2020
Skills	Programming: Python (PyTorch, Tensorflow, Pandas, Numpy), Julia, R, MATLAB, GIT Languages: English, Sesotho	
Publications	1. Nicolas Garcia Trillos, Zachary Kaplan, <b>Thabo Samakhoana</b> , Daniel Sanz-Alonso. On the consistency of graph-based Bayesian semi-supervised learning and the scalability of sampling algorithms. <i>Journal of Machine Learning Reserach</i> , 2020.	
Papers in Review	1. <b>Thabo Samakhoana</b> , Benjamin Grimmer. The Optimal Smoothings of Sublinear Functions and Convex Cones. <i>ArXiv Preprint</i> , 2025.	
	2. <b>Thabo Samakhoana</b> , Benjamin Grimmer. Scalable Projection-Free Optimization Methods via MultiRadial Duality Theory. <i>ArXiv Preprint</i> , 2024.	
Fellowships	Counselman Fellowship	2023
AND	Mathematical Institute for Data Science Fellowship	2021
Scholarships	Gregory Fellowship in Engineering	2020
	Davis United World College Scholarship	2014 - 2018
Talks	The Optimal Smoothings of Sublinear Functions and Convex Cones	
	INFORMS Annual Meeting, Atlanta GA	2025
	ICCOPT, Los Angeles CA	2025
	Scalable Optimization Algorithms via MultiRadial Duality	
	INFORMS Annual Meeting, Seattle WA	2024
	MOPTA, Lehigh PA	2024
	INFORMS Optimization Society Conference, Houston TX	2024

## TEACHING Instructor, Johns Hopkins University

Nonlinear Optimization I (PhD Course) Fall 2022

### Teaching Assistant, Johns Hopkins University

Nonlinear Optimization I (PhD Course)

Nonlinear Optimization II (PhD Course)

Spring 2025

Linear Algebra and Differential Equations

Probability and Statistics for Physical Sciences and Engineering

Fall 2020

### Teaching Assistant, Brown University

Statistical Inference II Spring 2017

### Tutor, Brown University

Statistical Inference ISpring 2018Introductory Calculus IIFall 2017Intermediate MicroeconomicsSpring 2016 - Spring 2017Introductory StatisticsSummer 2016