Rui Gong

H. Milton Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology 765 Ferst Drive NW, Atlanta, GA 30332. rgong44@gatech.edu rui-gong-0791.github.io RESEARCH Continuous Optimization, Convex Optimization, Semidefinite Optimization and their INTERESTS applications to other areas. **EDUCATION** Georgia Institute of Technology Atlanta, Georgia, U.S.A. 2023.08-2027.08 PhD in Operation Research • Advisor: Diego Cifuentes, Alejandro Toriello University of Waterloo Waterloo, Ontario, Canada M.Math. in Combinatorics & Optimization 2021.09-2023.06 • Thesis: Low-Rank Plus Sparse Decompositions of Large-Scale Matrices via Semidefinite Optimization • Advisor: Levent Tuncel • Passed C&O PhD first stage comprehensive exams: Continuous Optimization, Graph Theory **University of Waterloo** Waterloo, Ontario, Canada B.Math. Triple Major in Mathematical Finance, Mathematical Optimization, Statis-2017.09-2021.08 tics• Dean's Honour List RESEARCH SCHOLARSHIPS Georgia Institute of Technology & AWARDS ISyE Premium Fellowship Ronald & Carol Beerman Fellowship University of Waterloo Math Domestic Graduate Student Award 2022-2023 Sinclair Graduate Scholarship 2023.01-2023.04 Sinclair Graduate Scholarship 2022.09-2022.12 $C \ {\ensuremath{\mathcal E}} \ O \ Graduate \ Award$ 2022.01-2022.04 Sinclair Graduate Scholarship 2022.01-2022.04 President's Scholarship of Uwaterloo 2017 TALKS Speaker: Convex Optimization, Factor Analysis and Realizability of a Subspace, Graduate Research Seminar, Department of Combinatorics & Optimization, Faculty of Mathematics, University of Waterloo. April 11, 2022 Low-Rank Plus Sparse Decompositions of Large-Scale Matrices via Semidefinite Optimization, MMATH Thesis Talk, Department of Combinatorics & Optimization, Faculty of Mathematics, University of Waterloo. May 3, 2023 WORKSHOP Attendee: 24th Midwest Optimization Meeting & Workshop on Large Scale Optimization and Applications, University of Waterloo. October 28-29, 2022 Algorithms, Combinatorics and Optimization Research Network (ACORN) Meeting

March 9-11, 2023

2023, Atlanta, Georgia.

WORK EXPERIENCE	Intact Financial CorporationToronto, CanadActuarial Analyst of Ontario PL Pricing2020.01 - 2020.0Extracted and manipulated databases to respond to internal inquiries by SAS. Generated earning and loss reports weekly and monthly by Excel and SAS. Analyzedcorrectness of rates for insurance premium algorithm with R.	
	Validus Research Inc. Quality Assurance Student Engineer Created automation tests and check the quality of the programs by	Waterloo, Canada 2018.09 - 2018.12 y Selenium Python.
TEACHING	 Teaching Assistant Uni Undergraduate course: Portfolio Optimization (CO372) 2022.09-2022.12 Holding office hours, marking assignments and exams. Graduate course: Semidefinite Programming (CO471/671) Marking assignments. 	versity of Waterloo 2021.09-2022.04; 2022.05-2022.08
COURSES	Have taken 13 graduate-level courses at Uwaterloo with a grade average of 94.46: Continuous Optimization Convex Optimization and Analysis Semidefinite Opti- mization Combinatorial Optimization Optimization for Data Science Stochas- tic Processes Graph Theory Lebesgue Integration and Fourier Analysis Measure and Integration Statistical Learning - Function Estimation Statistical Learning - Classification Quantitative Enterprise Risk Management Mathematics of Finan- cial Markets	
TECHNICAL STRENGTHS	Language Proficiency: Native Chinese Speaker, Proficient in English Programming Languages: Python, Matlab, R,	