

PROFILE	MASc in Electrical and Computer Engineering with expertise in optimization and control of cyber-physical systems. My research focused on developing tractable and efficiently solvable control design methods with rigorous theoretical guarantees.	
EDUCATION	University of Waterloo , Waterloo, Canada M.A.Sc., Electrical and Computer Engineering Advised by Dr. Michael W. Fisher Coursework: Fundamentals of Optimization, Optimization Methods, Distributed Optimization, Multivariable Control, Stochastic Control, Nonlinear Control - Thesis: Convex Reparameterizations for Efficient Mixed $\mathcal{H}_2/\mathcal{H}_\infty$ Feedback Control [thesis]	September 2023 - August 2025
	Wuhan University , Wuhan, China B.Sc., Applied Mathematics - Thesis: Algebraic Connectivity Analysis of Directed Double-Ring Network	September 2019 - June 2023
PREPRINTS	[J ₁] Z. Fang and M. W. Fisher, "Convex Reparameterizations for Mixed $\mathcal{H}_2/\mathcal{H}_\infty$ Output Feedback Control Design," 2025. [J ₂] Z. Fang and M. W. Fisher, " $\mathcal{H}_2/\mathcal{H}_\infty$ Control Design with System Level Synthesis and Simple Pole Approximation in Continuous Time," 2025.	
PUBLICATIONS	[C ₁] Z. Fang and M. W. Fisher, "Constrained $\mathcal{H}_2/\mathcal{H}_\infty$ control design of dynamic virtual power plants via system level synthesis and simple pole approximation," in <i>2025 IEEE Electrical Power and Energy Conference (EPEC)</i> , pp. 417-423, 2025. [paper] [C ₂] Z. Fang and M. W. Fisher, "Hybrid state space and frequency domain system level synthesis for sparsity-promoting $\mathcal{H}_2/\mathcal{H}_\infty$ control design," in <i>2024 IEEE 63rd Conference on Decision and Control (CDC)</i> , pp. 8473–8478, 2024. [paper]	
PRESENTATIONS	IEEE Electrical Power and Energy Conference [slides] 2025 MASc Seminar, University of Waterloo [slides] [slides_handout] 2025 IEEE Conference on Decision and Control [slides] [slides_handout] 2024	
TEACHING EXPERIENCE	ECE 207 Signals and Systems Spring 2025 MATH 213 Signals, Systems, and Differential Equations Winter 2025 MTE 484 Control Applications Fall 2024 ECE 608 Quantitative Methods in Biomedical Engineering Spring 2024 NE 488B Nano-Instrumentation Lab Winter 2024	
COMMUNITY INVOLVEMENT	UW ECE Mentorship Program, <i>Mentor</i> 2025 American Control Conference, <i>Student Volunteer</i> 2024 WHU Math Undergrad-Mentor Program, <i>Mentor</i> 2021 - 2022 WHU Mathematical Modeling Association, <i>Director</i> 2019 - 2022	
HONORS AND AWARDS	Faculty of Engineering Award 2025 International Master's Award of Excellence, Graduate Research Studentship 2023 - 2025 - 2 years of full tuition support, University of Waterloo School of Mathematics Scholarship (9/math undergrads), Wuhan University 2021 National First Prize (292/45075), China Undergrad Mathematical Contest in Modeling 2021	