

413D Photonics Center, 8 St. Mary St, Boston, MA, 02215 □ (+1) 857-272-6439 | **™** maqq@bu.edu

Education

Ph. D Candidate Boston, USA

Boston University, Electrical and Computer Engineering

Sep. 2017 - Present

• Research: Distributed optimization and Learning, Advisor: Alex Olshevsky, GPA: 3.7/4.0

Master of Engineering Harbin, China

Harbin Institute of Technology, Electrical Engineering

Sep. 2015 - Jul. 2017

• Research: Optimization and Control. Advisor: Guangcheng Ma. GPA: 3.4/4.0

Bachelor of Engineering Harbin, China

Harbin Institute of Technology, Electrical Engineering

Aug. 2010 - Jun. 2014

• Major: Automation. GPA: 3.5/4.0

Research Interests _____

Optimization, Machine Learning, Online Learning, Distributed and networked systems, Control

Skills

Operation System: Windows, Linux (Ubuntu), and MacOS

Languages: Python, MATLAB, C/C++

Software: MATLAB/Simulink, Multisim, AutoCAD, Pspice, Quartus

Research Experience _____

Boston University, Electrical and Computer Engineering Department

Boston, USA

Research Assistant

Sep. 2017 - Present

- · Low-rank matrix completion with adversaries and noises, Crowdsourcing
- Graph representation learning and domain adaption learning
- Projection-free online learning algorithms, Frank Wolfe type online algorithms
- Network independent distributed optimization algorithms
- Structural controllability

Harbin Institute of Technology, Space Control Technology Lab

Harbin, China

Research Assistant

Sep. 2015 - Jul. 2017

- The stability and stabilization analysis of nonlinear system with time-delay
- The analysis for the novel imperfect premise matching approach and conventional PDC method
- · Fuzzy filter design for nonlinear systems with time-varying delay

Harbin Institute of Technology, Space Control Technology Lab

Harbin, China

Research Assistant

Jan. 2014 - Jun. 2014

- · Designed a novel attitude control algorithm based on the sliding model theory and feedback linearization approach, and did a simulation analysis based on the MATLAB/SIMULINK
- · Investigated a physical simulation experiment scheme whose core component is a 3-axis air bearing table, and analyzed the attitude control subsystem of the physical simulation system

Publications

- 1.~ Qianqian Ma, Li Li, Guangcheng Ma, Daling Jia, Hongwei Xia, "A new fuzzy H $_{\infty}$ filter design for nonlinear time-delay systems with mismatched premise membership functions", IFAC - Papers Online, v 50, n 1, p 1433-1438, July 2017.
- 2. Qianqian Ma, Hongwei Xia, Guangcheng Ma, Yong Xia, Chong Wang, "Improved stability and stabilization criteria for T-S fuzzy systems with distributed time-delay", Data Mining and Big Data - 2nd International Conference, p 517-526, 2017.
- 3. **Qianqian Ma**, Li Li, Junhui Shen, Haowei Guan, Guangcheng Ma, Hongwei Xia, "Improved fuzzy H_{∞} filter design method for nonlinear systems with time-varing delay", 2017 IEEE International Conference on Systems, Man and Cybernetics (SMC) p 722-727, 2017.

- 4. **Qianqian Ma**, Lili, Hongwei Xia, Mingyang Yang and Guangcheng Ma, "New Results on Stability and Stabilization Analyses for T-S fuzzy Systems with Distributed Time-Delay under Imperfect Premise Matching", 2016 ICICIP, Angkor, Cambodia, p 143-148.
- 5. Lili, **Qianqian Ma**, Hongwei Xia, Guangcheng Ma and Dali Zhang, "New H_{∞} Filter Design Approach for Time-Delay Fuzzy-Model-Based System under Imperfect Premise Matching", 2016 ICICIP, Angkor, Cambodia p 5-10.

Presentation

7th International Conference on Intelligent Control and Information Processing (2016ICICIP)

Angkor, Cambodia

Presenter

Dec. 1-4 2016

• Presented the papers "New Results on Stability and Stabilization Analyses for T-S fuzzy Systems with Distributed Time-Delay under Imperfect Premise Matching" and "New H_{∞} Filter Design Approach for Time-Delay Fuzzy-Model-Based System under Imperfect Premise Matching"

2nd International Conference on Data Mining and Big Data (DMBD 2017)

Fukuoka, Japan

Presenter

July. 27 - August. 1

· Presented the paper "Improved stability and stabilization criteria for T-S fuzzy systems with distributed time-delay"

Working Experience _____

Teaching Assistant

Boston, USA

ENG EC503 (Learning from Data)

2018 fall, 2019 Spring

- A machine learning course covering the general theories, algorithms, and applications of machine learning tasks.
- The course focus on the following major classes of supervised and unsupervised learning problems: classification, regression, density estimation, clustering, dimensionality reduction, kernels, robustness regularization, and neural networks

Teaching Volunteer Yunnan, China

Ninglang No.1 Senior High School of Yunnan Province

Jul. 2014 - Jul. 2015

• Worked as a **full-time teacher for 1 year time** in a senior high school which locates in Yunnan province of china. It was a voluntary project for graduate student of HIT

Awards _____

2016.09	The First Prize of Post-Graduate Students Scholarship Recipient
2016.05	The May-4th Medal for Excellent Youth (top 0.1%)
2016.03	The University-level Outstanding Communist Youth member
2015.09	The First Prize of Post-Graduate Students Scholarship Recipient
2012.10	The China-Survey University Students Social Research Scholarship Recipient (top 2.5%)
2011.03	The Second Prize of Renmin Scholarship Recipient

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