

# Zijian Liu

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## Education

Sept. 2021 **Department of Computer Science, Boston University, MA**  
– Now Ph.D. in Computer Science

**GPA:** 4.00/4.00

Sept. 2019 **Courant Institute of Mathematical Sciences, New York University, NY**  
– May 2021 M.S. in Computer Science

**GPA:** 3.889/4.000

Sept. 2015 **School of Computer Science, Wuhan University, Wuhan, China**  
– June 2019 B.Eng. in Software Engineering

**GPA:** 85.4/100

## Research Interests

Convex and Non-convex Optimization, Theoretical Machine Learning

## Publications & Manuscripts

(\* indicates equal contribution)

### **Adaptive Accelerated (Extra-)Gradient Methods with Variance Reduction**

Zijian Liu\*, Ta Duy Nguyen\*, Alina Ene, Huy L. Nguyen

*Submitted to International Conference on Machine Learning (ICML)*

### **Distributionally Robust $Q$ -Learning**

Zijian Liu\*, Zhengqing Zhou\*, Perry Dong, Qinxun Bai, Jose Blanchet, Wei Xu, Zhengyuan Zhou

*Submitted to International Conference on Machine Learning (ICML)*

## Research Experience

Sept. 2021 **Boston University**  
– Now Advisor: Prof. Alina Ene  
Work on Convex Optimization

## Teaching Experience

Fall 2020 **Bayesian Machine Learning**, Section Leader  
Instructor: Prof. Andrew Gordon Wilson

New York University

- Teach supplementary materials and advanced topics in recitation class
- Grade assignments

## Skills

**Programming Languages:** Python, C/C++, Java, Scheme, MATLAB

**Language:** Chinese, English