

## Weici Pan

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### About me

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I am a PhD candidate in Operations Research specializing in online learning and optimization for AI/ML systems. My research develops frameworks for reliable and efficient AI deployment. I combine rigorous optimization theory with practical system design.

### EDUCATION

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#### PhD in Operations Research

2021 – present

Stony Brook University, Stony Brook, NY  
Department of Applied Mathematics and Statistics  
Advised by Prof. Zhenhua Liu  
*Research direction:* Reliable and Efficient Systems for AI/Machine Learning  
Preliminary exam committee: Prof. Zhenhua Liu, Prof. Jian Li, Prof. Adam Wierman (Caltech), Dr. Yuan Chen (NVIDIA)

#### BEng in Computer Science and Technology (Yao Class)

2017 – 2021

Tsinghua University, China  
Yao Class, Institute for Interdisciplinary Information Sciences  
Advised by Prof. Zhixuan Fang

### EXPERIENCE

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#### Visiting Student Researcher

2020

California Institute of Technology, Department of Computing and Mathematical Sciences  
Mentored by Prof. Adam Wierman  
*Project topic:* online control with additive and multiplicative noises

#### Junior Research Assistant

2019

The Chinese University of Hong Kong, Department of Information Engineering  
Mentored by Prof. Minghua Chen  
*Project topic:* energy-related scheduling via optimization with an inventory

### PUBLICATIONS

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#### Conference

Fu H, Pan W, Liu Z, Lin S. MALLM: Multi-Agent Decision-Making with LLMs for Multi-User Edge-Sensor Environments. *IEEE AIoT 2025*

Pan W, Liu Z. Switching Constrained OCO with Predictions and Feedback Delays. *IFIP Performance 2025*

Pan W, Shi G, Lin Y, Wierman A. Online Optimization with Feedback Delay and Nonlinear Switching Cost. *ACM SIGMETRICS 2022*

#### Journal

Pan W, Liu Z. Switching constrained OCO with predictions and feedback delays. *Performance Evaluation*. 2025 Nov 5:102524. [Journal Version of the paper at IFIP Performance 2025]

Fu H, Pan W, Zhou L, Zhang Z, Liu Z, Lin S. MALLM: Multi-Agent Decision-Making with LLMs for Multi-User Edge-Sensor Environments. *ACM SIGMETRICS Performance Evaluation Review*. 2025 Aug 27;53(2):3-8. [Journal Version of the paper at AI Crossroads Workshop]

Pan W, Liu Z. Non-stationary Bandits with Heavy Tail. *ACM SIGMETRICS Performance Evaluation Review*. 2024 Sep 6;52(2):33-5. [Journal Version of the paper at MAMA 2024]

Pan W, Liu Z. Switching Constrained Online Convex Optimization with Predictions and Feedback Delays. *ACM SIGMETRICS Performance Evaluation Review*. 2023 Oct 2;51(2):3-5. [Journal Version of the paper at MAMA 2023]

Pan W, Shi G, Lin Y, Wierman A. Online optimization with feedback delay and nonlinear switching cost. *Proceedings of the ACM on Measurement and Analysis of Computing Systems*. 2022 Feb 25;6(1):1-34 [Journal Version of the paper at ACM SIGMETRICS 2022].

## Others

Han BS, Pan W, Tay YC. Industrial Panel Discussion: The Impact of AI/ML on SIGMETRICS. *ACM SIGMETRICS Performance Evaluation Review*. 2025 Aug 27;53(2):143-4.

Pan W, Nie C, Liu, Z. Efficient Federated Learning on Edge Devices over Heterogeneous Network and Data. Poster at *OSDI 2023*

## Invited Talks

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### 2025 INFORMS Annual Meeting

*Failure-Aware Dynamic Reserve and Checkpoint Scheduling for Sustainable GPU Clusters*

Presented at the 2025 INFORMS Annual Meeting on October 26-29, 2025 in Atlanta, GA, USA.

## Teaching

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### AMS 691.01: Recent Progress in AI/ML: Applications, Architectures, and Systems

*Teaching Assistant Fall 2025*

AMS, Stony Brook University

Co-teaching the course, giving lectures on Transformers, AI Hallucinations, and AutoML.

### AMS 303 GRAPH THEORY

*Teaching Assistant Fall 2021 and Spring 2022*

AMS, Stony Brook University

## Services

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### ACM SIGMETRICS 2025

*Web Chair*

Responsible for setting up and maintaining the conference webpage, in collaboration with Sri Pramodh Rachuri

### IEEE INFOCOM 2026

*Reviewer*

Delegated as the reviewer of papers submitted to IEEE INFOCOM 2026.

## SKILLS

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- **Programming Languages:** Python, C++, Mathematica
- **ML/AI:** PyTorch, TensorFlow, Transformers, OpenAI API, scikit-learn
- **Data & Optimization:** NumPy, pandas, Gurobi, CVX
- **Tools:** Git, tqdm, Jupyter, Docker