Kevin Yipu Wu

Doctoral Student · Electrical and Computer Engineering

University of Washington, Seattle, WA

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Education

University of Washington — *Seattle, WA*
Ph.D. — *2024 - Present*

William & Mary — *Williamsburg, VA*
B.S. Computer Science and Mathematics Double Major — *2020 - 2024*
- CS GPA: 3.88/4, GPA: 3.78/4

Professional Experience

2022 - 2023 **Solutions Architect Intern**, Amazon Web Services
2021 - 2022 **Junior Software Developer**, ESPX Global Inc.
2019 - 2023 **Student Intern Team Lead**, Asian Americans in Energy, Environment, and Commerce

Publications

In Review

Chi-Kwong Li, Kevin Y. Wu, and Zherui Zhang. Efficient Circuit-Based Quantum State Tomography via Sparse Entry Optimization. In review.

Awards, Fellowships, & Grants

2024 **AQET Scholar**, University of Washington AQET Program
Stephen K. Park Undergraduate Scholarship Award, W&M Computer Science Department — *$ 1500*

2023 **Phi Beta Kappa**, W&M Phi Beta Kappa Chapter
Elias Paparis Scholarship, W&M Computer Science Department — *$ 2500*
Robert C. and Muriel M. Jennings Scholarship, W&M Phi Beta Kappa Chapter — *$ 3500*

Presentations

Contributed Presentations

Chi-Kwong Li, Kevin Y. Wu, and Zherui Zhang. 2024. Efficient Circuit-Based Quantum State Tomography via Sparse Entry Optimization. Talk: MAO, Reno, Nevada.

Chi-Kwong Li, Kevin Y. Wu, and Zherui Zhang. 2024. Efficient Circuit-Based Quantum State Tomography via Sparse Entry Optimization. Poster: JMM, San Francisco, CA.

Research Experience

Honors Thesis: Improving the Scalability of Neural Network Surface Code Decoders — *William & Mary*
Advisor: Dr. Qun Li — *2023 - 2024*

Applying Differential Learning to Quantum Federated Learning — *William & Mary*
Advisor: Dr. Qun Li — *2023*

First AI/ML Challenge at Dahlgren *NSWCDD*
Advisor: Qun Li *2022 - 2023*

Quantum Operator Approximation via Nonconvex PSD Programming *William & Mary*
Advisor: Dr. Chi-Kwong Li *2022*

Outreach & Professional Development

Service and Outreach

2022 - 2024 **W&M CS Department**, Undergraduate CS Consultant