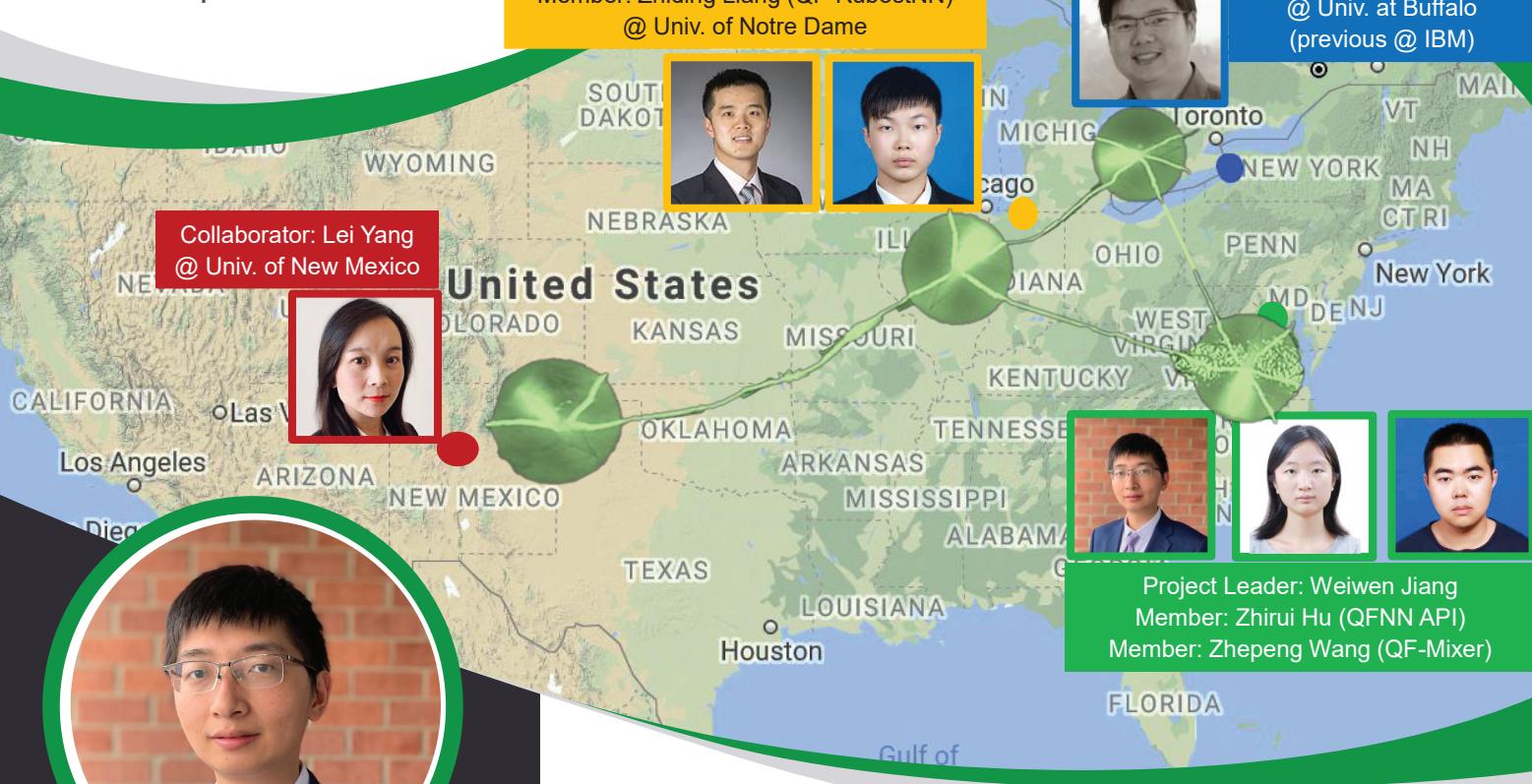


Tutorials: Oct 18



IGSC
Sustainability & Computing



Weiwen Jiang

Assistant Professor
George Mason University

Bio and Lab

Dr. Jiang established JQub at Mason in Fall 2021. Before joining Mason was a Postdoc @ Univ. of Notre Dame.

JQub: Dr. Jiang's Quantum-Classical Computer-Aided Design Lab focuses on research directions in Quantum Computing and HW/SW Co-Design for Edge Machine Learning System

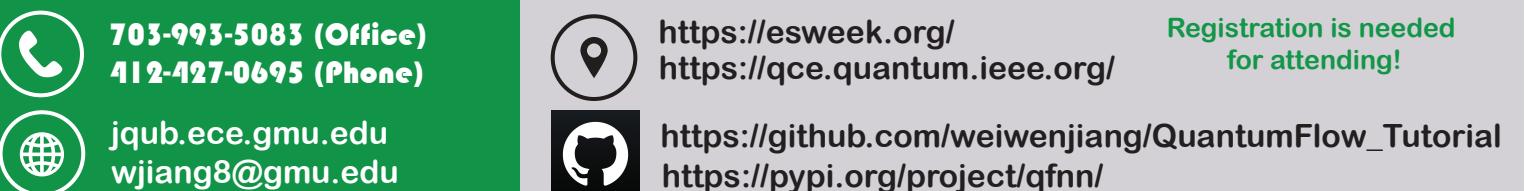
<https://jqub.ece.gmu.edu>



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<https://esweek.org/>
<https://qce.quantum.ieee.org/>

Registration is needed for attending!



https://github.com/weiwenjiang/QuantumFlow_Tutorial
<https://pypi.org/project/qfnn/>

Tutorial at IGSC: Oct 18



Schedule

Topic 1 Introduction to Quantum Computing and Machine Learning

Topic 2 Design of QuantumFlow and Hands-On Examples

Topic 3 Build Quantum Circuit for NN Acceleration using QFNN



Resources



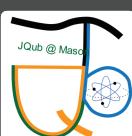
https://github.com/JQub/QuantumFlow_Tutorial (Source Code of All Hands-On in Tutorial)

<https://github.com/JQub/qfnn> (Source Code of QFNN API & Place to post Issues)



<https://pypi.org/project/qfnn/> (Package of QFNN on PYPI)

<https://libraries.io/pypi/qfnn/> (QFNN on Libraries.io)



<https://jqub.ece.gmu.edu> (JQub Website)

<https://jqub.ece.gmu.edu/categories/QF> (QuantumFlow Website for news and slides)

<https://jqub.ece.gmu.edu/categories/QF/qfnn/> (QFNN Documents)



<https://www.nature.com/articles/s41467-020-20729-5> (QuantumFlow Paper)



<https://arxiv.org/pdf/2012.10360.pdf> (Paper on How to Correct Map NN to Q)

<https://arxiv.org/pdf/2109.03806.pdf> (QF-Mixer)

<https://arxiv.org/pdf/2109.03430.pdf> (QF-RobustNN)



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