

Welcome to KFUPM

Dr. Ji Zou

Assistant Professor

Physics Department

Affiliated with Interdisciplinary Research Center for Advanced Quantum Computing



Education:

PhD. from the University of California, Los Angeles, USA, 2022

Previous Institution:

University of Basel, Switzerland,
Georg H. Endress Postdoctoral Fellow, 2022-2025

Research Profile (SCOPUS):

Total Citations: 355

Total Journal Publications: 24

H-index: 11

Professional Interests:

Quantum Computing, Spin Qubits, Noise in Solid-State Quantum Systems, Magnetism & Spintronics, Domain-Wall Qubits, Topological Phenomena, and Nonequilibrium Quantum Transport.

About Dr. Zou:

Dr. Zou is a theoretical condensed matter physicist working at the interface of quantum computing and magnetism. His research focuses on solid-state quantum information platforms, including spin qubits and domain-wall flying qubits, and on understanding the roles of topology, noise, and dissipation. He has made contributions to quantum spintronics, correlated noise in quantum computation, and nonequilibrium quantum transport in low-dimensional materials, with the broader goal of developing scalable and robust quantum technologies.