

Stanford



Chunyang Ding

Ph.D. Student in Physics, admitted Summer 2023

Bio

BIO

Chunyang Ding is a physicist working on novel implementations of quantum computing, currently living in Redwood City, CA. He graduated from Yale University with a B.S. in Physics (Intensive), and had worked in the labs of Professors Michel Devoret (superconducting qubits, microwave resonators), Nir Navon (ultracold atoms, MOT for Potassium), and Marla Geha (satellite galaxies, statistical analysis). He was previously an associate physicist at IonQ, a trapped ion quantum computing startup associated with Chris Monroe and Jungsang Kim, and is now a PhD student at Stanford/University of Chicago, working on novel fluxonium gate schemes in the lab of Professor David Schuster.

LINKS

- Personal homepage: <https://chunyangding.com/>
- Schuster lab homepage: <https://schusterlab.stanford.edu/>

Research & Scholarship

LAB AFFILIATIONS

- David Schuster, Schuster Lab (7/4/2020)

Publications

PUBLICATIONS

- **Tunable Inductive Coupler for High-Fidelity Gates Between Fluxonium Qubits** *PRX QUANTUM*
Zhang, H., Ding, C., Weiss, D. K., Huang, Z., Ma, Y., Guinn, C., Sussman, S., Chitta, S., Chen, D., Houck, A. A., Koch, J., Schuster, D. I.
2024; 5 (2)
- **Experimental advances with the QICK (Quantum Instrumentation Control Kit) for superconducting quantum hardware** *PHYSICAL REVIEW RESEARCH*
Ding, C., Di Federico, M., Hatridge, M., Houck, A., Leger, S., Martinez, J., Miao, C., Schuster, D., Stefanazzi, L., Stoughton, C., Sussman, S., Treptow, K., Uemura, et al
2024; 6 (1)
- **Fast High-Fidelity Gates for Galvanically-Coupled Fluxonium Qubits Using Strong Flux Modulation** *PRX QUANTUM*
Weiss, D. K., Zhang, H., Ding, C., Ma, Y., Schuster, D. I., Koch, J.
2022; 3 (4)
- **The QICK (Quantum Instrumentation Control Kit): Readout and control for qubits and detectors** *REVIEW OF SCIENTIFIC INSTRUMENTS*
Stefanazzi, L., Treptow, K., Wilcer, N., Stoughton, C., Bradford, C., Uemura, S., Zorzetti, S., Montella, S., Cancelo, G., Sussman, S., Houck, A., Saxena, S., Araldi, et al
2022; 93 (4)