

Ruishi Qi

Postdoctoral Scholar, Applied Physics

 Curriculum Vitae available Online

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California Berkeley (2026)
- Master of Arts, University of California Berkeley (2022)
- B.S., Peking University , Physics (2020)

STANFORD ADVISORS

- Tony Heinz, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **An exciton crystal in a moiré excitonic insulator** *NATURE PHYSICS*
Qi, R., Li, Q., Kim, H., Nie, J., Zhang, Z., Xia, R., Cui, Z., Xiao, J., Taniguchi, T., Watanabe, K., Crommie, M. F., Wang, F.
2026; 22 (4)
- **Competition between excitonic insulators and quantum Hall states in correlated electron-hole bilayers.** *Nature materials*
Qi, R., Li, Q., Zhang, Z., Nie, J., Zou, B., Cui, Z., Kim, H., Sanborn, C., Chen, S., Xie, J., Taniguchi, T., Watanabe, K., Crommie, et al
2026; 25 (1): 35-41
- **Electrically controlled interlayer trion fluid in electron-hole bilayers.** *Science (New York, N.Y.)*
Qi, R., Li, Q., Zhang, Z., Chen, S., Xie, J., Ou, Y., Cui, Z., Dai, D. D., Joe, A. Y., Taniguchi, T., Watanabe, K., Tongay, S., Zettl, et al
2025; 390 (6770): 299-303
- **Perfect Coulomb drag and exciton transport in an excitonic insulator.** *Science (New York, N.Y.)*
Qi, R., Joe, A. Y., Zhang, Z., Xie, J., Feng, Q., Lu, Z., Wang, Z., Taniguchi, T., Watanabe, K., Tongay, S., Wang, F.
2025; 388 (6744): 278-283
- **Thermodynamic behavior of correlated electron-hole fluids in van der Waals heterostructures.** *Nature communications*
Qi, R., Joe, A. Y., Zhang, Z., Zeng, Y., Zheng, T., Feng, Q., Xie, J., Regan, E., Lu, Z., Taniguchi, T., Watanabe, K., Tongay, S., Crommie, et al
2023; 14 (1): 8264
- **Measuring phonon dispersion at an interface.** *Nature*
Qi, R., Shi, R., Li, Y., Sun, Y., Wu, M., Li, N., Du, J., Liu, K., Chen, C., Chen, J., Wang, F., Yu, D., Wang, et al
2021; 599 (7885): 399-403