

Chaofan Wang

Email: chaofan.wang@link.cuhk.edu.hk

Tel: +86 18355113531; +1 (203) 676-6395

Office: Room 904, Ho Sin Hang Engineering Building, Shatin, Hong Kong SAR

Education

The Chinese University of Hong Kong (CUHK)

Ph.D. in Computer Science and Engineering; Advisor: Prof. Bei Yu

Jan. 2026 – Present

Hong Kong SAR

Yale University

M.S. in Electrical Engineering

Sep. 2023 – Dec. 2025

New Haven, Connecticut, USA

University of Science and Technology of China (USTC)

B.S. in Optics, School of the Gifted Young

Sep. 2019 – July 2023

Hefei, Anhui, China

Publications

Conference Papers

[C2] **Wang, C.**, Yu, Z., Zheng, S., Wang, Z., Shi, Y., & Yu, B. (2026). “Moreau-ILT: Efficient Inverse Lithography Exploiting Weak Convexity.” IEEE/ACM International Conference on Computer-Aided Design (ICCAD), San Jose, Nov. 8–12, 2026 (in press).

[C1] Yang, L., Wu, Y., **Wang, C.**, Xu, M., Tang, H. X., Hassan, M. A., & Holland, E. T. (2025). “Nonlinear co-simulation for designing kinetic inductance parametric amplifiers.” IEEE International Conference on Quantum Computing and Engineering (QCE), 1, 1393–1393.

Journal Articles

[J6] **Wang, C.**, Liu, S., Wu, Y., Wang, D., Pace, M. C., Li, X., & Tang, H. X. (2026). “A K-band kinetic-inductance parametric amplifier near the quantum limit.” Applied Physics Letters, 128(25).

[J5] Wu, Y., **Wang, C.**, Wang, D., Xu, M., Zhou, Y., & Tang, H. X. (2025). “Broad Spectrum Coherent Frequency Conversion with Kinetic Inductance Superconducting Metastructures.” Physical Review Applied, 24, 024015.

[J4] Jiao, Z., Liu, S., Xie, J., Lim, J., Yang, G., **Wang, C.**, & Tang, H. X. (2025). “SiC cavity-based pressure sensor with high dynamic range.” IEEE Sensors Journal, 25(16), 30464–30469.

[J3] Zhu, T. X.^{*}, Su, M. X.^{*}, Liu, C., Liu, Y. P., **Wang, C. F.**, Liu, P. X., Zhou, Z. Q., Li, C. F., & Guo, G. C. (2024). “Integrated spin-wave quantum memory.” National Science Review, 11(11), nwae161.

[J2] Wang, Y. Q.^{*}, **Wang, C. F.**^{*}, Wang, H. T., Du, M. X., & Wang, B. H. (2021). “Physical mechanism of equiprobable exclusion network with heterogeneous interactions in phase transitions: Analytical analyses of steady state evolving from initial state.” Communications in Nonlinear Science and Numerical Simulation, 103, 105981.

[J1] Wang, Y. Q.^{*}, **Wang, C. F.**^{*}, & Wang, H. T.^{*} (2021). “Phase transitions in two-channel TASEPs based on a new method of cluster mean-field analyses.” The European Physical Journal Plus, 136, 29.

Teaching Experience

EENG 203: Circuits and Systems Design

Teaching Fellow, Yale University

Spring 2025

New Haven, Connecticut, USA

EENG 200: Introduction to Electronics

Teaching Fellow, Yale University

Fall 2024

New Haven, Connecticut, USA