

Taewon Park

- Ph.D. Student in Electrical Engineering, admitted Autumn 2020
- Masters Student in Electrical Engineering, admitted Spring 2024

Publications

PUBLICATIONS

- **Single-mode squeezed-light generation and tomography with an integrated optical parametric oscillator.** *Science advances*
Park, T., Stokowski, H., Ansari, V., Gyger, S., Multani, K. K., Celik, O. T., Hwang, A. Y., Dean, D. J., Mayor, F., McKenna, T. P., Fejer, M. M., Safavi-Naeini, A. 2024; 10 (11): eadl1814
- **Integrated frequency-modulated optical parametric oscillator.** *Nature*
Stokowski, H. S., Dean, D. J., Hwang, A. Y., Park, T., Celik, O. T., McKenna, T. P., Jankowski, M., Langrock, C., Ansari, V., Fejer, M. M., Safavi-Naeini, A. H. 2024; 627 (8002): 95-100
- **Mid-infrared spectroscopy with a broadly tunable thin-film lithium niobate optical parametric oscillator** *OPTICA*
Hwang, A., Stokowski, H. S., Park, T., Jankowski, M., McKenna, T. P., Langrock, C., Mishra, J., Ansari, V., Fejer, M. M., Safavi-Naeini, A. H. 2023; 10 (11): 1535-1542
- **Integrated quantum optical phase sensor in thin film lithium niobate.** *Nature communications*
Stokowski, H. S., McKenna, T. P., Park, T., Hwang, A. Y., Dean, D. J., Celik, O. T., Ansari, V., Fejer, M. M., Safavi-Naeini, A. H. 2023; 14 (1): 3355
- **Experimental evaluation of digitally verifiable photonic computing for blockchain and cryptocurrency** *OPTICA*
Pai, S., Park, T., Ball, M., Penkovsky, B., Dubrovsky, M., Abebe, N., Milanizadeh, M., Morichetti, F., Melloni, A., Fan, S., Solgaard, O. 2023; 10 (5): 552-560
- **Experimentally realized in situ backpropagation for deep learning in photonic neural networks.** *Science (New York, N.Y.)*
Pai, S., Sun, Z., Hughes, T. W., Park, T., Bartlett, B., Williamson, I. A., Minkov, M., Milanizadeh, M., Abebe, N., Morichetti, F., Melloni, A., Fan, S., Solgaard, et al 2023; 380 (6643): 398-404
- **Power monitoring in a feedforward photonic network using two output detectors** *NANOPHOTONICS*
Pai, S., Valdez, C., Park, T., Milanizadeh, M., Morichetti, F., Melloni, A., Fan, S., Solgaard, O., Miller, D. B. 2023
- **Bias-stable Sub-Volt Visible Electro-optic Modulator in Thin-Film Lithium Niobate**
Celik, O., Ammar, N., Stokowski, H. S., Park, T., Safavi-Naeini, A., IEEE IEEE.2023
- **Tunable dual wavelength laser on thin film lithium niobate**
Lufungula, I., Mayor, F. M., Herrmann, J. F., Park, T., Stokowski, H. S., Hwang, A. Y., De Beeck, C., Atalar, O., Jiang, W., Kuyken, B., Safavi-Naeini, A. H., IEEE IEEE.2023
- **High-efficiency second harmonic generation of blue light on thin-film lithium niobate.** *Optics letters*
Park, T., Stokowski, H. S., Ansari, V., McKenna, T. P., Hwang, A. Y., Fejer, M. M., Safavi-Naeini, A. H. 2022; 47 (11): 2706-2709
- **Cascaded optical resonator-based programmable photonic integrated circuits** *OPTICS EXPRESS*
Park, T., Jeong, Y., Yu, K.

2021; 29 (3): 4645–60