

## Jason Herrmann

Ph.D. Student in Applied Physics, admitted Autumn 2018

### Publications

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#### PUBLICATIONS

- **Platform-agnostic waveguide integration of high-speed photodetectors with evaporated tellurium thin films** *OPTICA*  
Ahn, G., White, A. D., Kim, H., Higashitarumizu, N., Mayor, F. M., Herrmann, J. F., Jiang, W., Multani, K. S., Safavi-Naeini, A. H., Javey, A., Vuckovic, J.  
2023; 10 (3): 349-355
- **Ultra-low-power second-order nonlinear optics on a chip.** *Nature communications*  
McKenna, T. P., Stokowski, H. S., Ansari, V., Mishra, J., Jankowski, M., Sarabalis, C. J., Herrmann, J. F., Langrock, C., Fejer, M. M., Safavi-Naeini, A. H.  
2022; 13 (1): 4532
- **Mirror symmetric on-chip frequency circulation of light** *NATURE PHOTONICS*  
Herrmann, J. F., Ansari, V., Wang, J., Witmer, J. D., Fan, S., Safavi-Naeini, A. H.  
2022
- **High-bandwidth CMOS-voltage-level electro-optic modulation of 780 nm light in thin-film lithium niobate** *OPTICS EXPRESS*  
Celik, O., Sarabalis, C. J., Mayor, F. M., Stokowski, H. S., Herrmann, J. F., McKenna, T. P., Lee, N. A., Jiang, W., Multani, K. S., Safavi-Naeini, A. H.  
2022; 30 (13): 23177-23186
- **III/V-on-lithium niobate amplifiers and lasers** *OPTICA*  
de Beeck, C., Mayor, F. M., Cuyvers, S., Poelman, S., Herrmann, J. F., Atalar, O., McKenna, T. P., Haq, B., Jiang, W., Witmer, J. D., Roelkens, G., Safavi-Naeini, A. H., Van Laer, et al  
2021; 8 (10): 1288-1289
- **Photonic Modal Circulator Using Temporal Refractive-Index Modulation with Spatial Inversion Symmetry.** *Physical review letters*  
Wang, J., Herrmann, J. F., Witmer, J. D., Safavi-Naeini, A. H., Fan, S.  
2021; 126 (19): 193901
- **Cryogenic microwave-to-optical conversion using a triply resonant lithium-niobate-on-sapphire transducer** *OPTICA*  
McKenna, T. P., Witmer, J. D., Patel, R. N., Jiang, W., Van Laer, R., Arrangoiz-Arriola, P., Wollack, E., Herrmann, J. F., Safavi-Naeini, A. H.  
2020; 7 (12): 1737-45