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Ph.D. Student in Applied Physics, admitted Autumn 2021

Bio

EDUCATION AND CERTIFICATIONS

- Bachelor of Science with Honors, University of Alberta , Physics (2021)

Publications

PUBLICATIONS

- **Intrinsic phononic dressed states in a nanomechanical system** *NATURE PHYSICS*
Yuksel, M., Maksymowych, M. P., Hitchcock, O. A., Mayor, F. M., Lee, N. R., Dykman, M. I., Safavi-Naeini, A. H., Roukes, M. L.
2026
- **Correlated dephasing in a piezoelectrically transduced silicon phononic waveguide** *PHYSICAL REVIEW APPLIED*
Hitchcock, O. A., Mayor, F. M., Jiang, W., Maksymowych, M. P., Malik, S., Safavi-Naeini, A. H.
2026; 25 (2)
- **Spectral diffusion of nanomechanical resonators due to single quantum defects** *PHYSICAL REVIEW APPLIED*
Maksymowych, M. P., Yuksel, M., Hitchcock, O. A., Lee, N. R., Mayor, F. M., Jiang, W., Roukes, M. L., Safavi-Naeini, A. H.
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- **Transduction of large optomechanical amplitudes with racetrack-loaded Mach-Zehnder interferometers** *OPTICS EXPRESS*
Westwood-Bachman, J. N., Maksymowych, M. P., Van, V., Hiebert, W. K.
2020; 28 (15): 21835-21844
- **Optomechanical spring enhanced mass sensing** *APPLIED PHYSICS LETTERS*
Maksymowych, M. P., Westwood-Bachman, J. N., Venkatasubramanian, A., Hiebert, W. K.
2019; 115 (10)
- **Validation of Online Calibration Modules for the Spondyloarthritis Research Consortium of Canada MRI Scores Based on Real-Time Experiential Learning**
Maksymowych, M., Boutrup, H., Cheah, J., Guglielmi, R., Heffernan, E., Jaremko, J., Johansson, M., Krabbe, S., Kroeber, G., Malik, F., Pedersen, S., Shafer, S., Weber, et al
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