Adam A.S. **Green**adam.aagen.green@gmail.com | (720) 278-5986 | www.linkedin.com/in/adamasgreen

KEY SKILLS AND HIGHLIGHTS

Programming	Python (pandas, matplotlib, numpy, scipy, trackpy), FORTRAN (lapack), Mathematica, openFOAM, LATEX, SQL, git
Mathematics	Eigenvalue and eigenvector problems, Brownian/stochastic analysis and statistics, Perturbation analysis, Electro-optic behaviour of soft matter systems, Fourier analysis
Achievements	First place in 2017 NSF MRSEC Center <i>Science Slam</i> (3-minute scientific presentation competition), 4 peer-reviewed publications in 4 distinct subfields, Poster presentation at the International Liquid Crystal Conference, Mentorship and supervision of 4 undergraduate research students, Oral presentation at the Ferroelectric Liquid Crystal Conference
Education	
Ph.D Physics University of Colorado Boulder	
M.S. Physics University of Colorado Boulder	
B.Sc. Physics Honours (First Class) University of Calgary	
Experien	ICE
Graduate Reso Fluid Dynami Materials Scien Soft Matter	cs Investigated the 2D fluid dynamics of freely-suspended liquid crystals
Graduate Rese	Designed and fabricated whispering gallery optical cavities for laser frequency stabilization applications 2013-2015
Undergraduat	Researcher University of Calgary, AB, CAN
Quantum Op Quantum Stat Complexity So	cistics Investigated statistical convergence of bosonic and fermionic systems

Publications

Minor, E. N., Howard, S. D., Green, A. A. S., Park, C. S., and Clark, N. A. (2019). End-to-End Machine Learning for Experimental Physics: Using Simulated Data to Train a Neural Network for Object Detection in Video Microscopy. *arXiv:1908.05271 [cond-mat]*. arXiv: 1908.05271

Green, A. A. S., Dutch, E., Qi, Z., Briggs, C., Park, C. S., Glaser, M. A., Maclennan, J. E., and Clark, N. A. (2019b). A gas flow meter with linear sensitivity based on freely-suspended nanofilms of smectic liquid crystal. *Appl. Phys. Lett.*, 114(16):163705

Green, A. A., Tuchband, M. R., Shao, R., Shen, Y., Visvanathan, R., Duncan, A. E., Lehmann, A., Tschierske, C., Carlson, E. D., Guzman, E., Kolber, M., Walba, D. M., Park, C. S., Glaser, M. A., Maclennan, J. E., and Clark, N. A. (2019a). Chiral Incommensurate Helical Phase in a Smectic of Achiral Bent-Core Mesogens. *Phys. Rev. Lett.*, 122(10):107801

Loh, W., Green, A. A. S., Baynes, F. N., Cole, D. C., Quinlan, F. J., Lee, H., Vahala, K. J., Papp, S. B., and Diddams, S. A. (2015). Dual-microcavity narrow-linewidth Brillouin laser. *Optica*, *OPTICA*, 2(3):225–232

Heshami, K., Green, A., Han, Y., Rispe, A., Saglamyurek, E., Sinclair, N., Tittel, W., and Simon, C. (2012). Controllable-dipole quantum memory. *Phys. Rev. A*, 86(1):013813

Davidsen, J. and Green, A. (2011). Are Earthquake Magnitudes Clustered? Phys. Rev. Lett., 106(10):108502

Hobbies and Interests

- *Birdwatching and Nature* the Front Range is rich in its variety of ecosystems and native species, and it is a constant delight to be out among them.
- *Board Games* Fellow graduate students introduced me to the joys of gaming, my current favourite is Carcassonne.