$\begin{array}{l} Adam \ A.S. \ \textbf{Green}, \ PhD \\ \text{adam.aagen.green@gmail.com} \ | \ (720) \ 278-5986 \ | \ www.linkedin.com/in/adamasgreen \end{array}$

KEY SKILLS AND HIGHLIGHTS

Research	Developed integrated hardware and software measurement platforms to image fast-time dynamics of condensed matter systems; Skilled scientific writer and communicator; Experienced interdisciplinary and international collaborator; Mentorship and supervision of 4 undergraduate research students; Experience as both team leader and contributor
Programming	Python (pandas, matplotlib, numpy, scipy, trackpy), FORTRAN (lapack), Mathematica, openFOAM, LATEX, SQL, git
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 (2017), Oral presentation at the Ferroelectric Liquid Crystal Conference (2019)
EDUCATIO	ON CONTRACTOR OF THE PROPERTY
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 Rese Fluid Dynamic Materials Scien Soft Matter	cs Investigated and developed novel metrology applications for liquid crystal fluids
Graduate Rese	Designed and fabricated whispering gallery optical cavities for laser frequency stabilization applications 2013-2015
Undergraduat Quantum Opt Quantum Stat Complexity So	tics Designed an optimally efficient optical quantum memory istics 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.