

Adam A. S. Green

adam.aagen.green@gmail.com – (720) 278 5986

KEY SKILLS AND HIGHLIGHTS

Programming	<i>Python</i> (pandas, matplotlib, numpy, scipy, trackpy), <i>FORTRAN</i> (lapack), <i>Mathematica</i> , <i>openFOAM</i> , \LaTeX
Mathematics	Eigenvalue and eigenvector problems, spatial defect tracking, Brownian/stochastic motion, perturbation analysis, electro-optic behaviour of soft matter systems
Communication	Skilled scientific writer and communicator, experienced interdisciplinary and international collaborator, mentorship and supervision of 4 undergraduate research students
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

EDUCATION

Ph.D Physics (in progress) University of Colorado Boulder July 2019
-*Liquid Crystal Phases and Dynamics: Correlations in the 2D XY Model, Helical Bannana Phases, and 2D Fluid Dynamics*

M.S. Physics University of Colorado Boulder May 2015

B.Sc. Physics Honours (First Class) University of Calgary May 2011
-*Improving the Efficiency of a Controlled Dipole Quantum Memory*

EXPERIENCE

Graduate Researcher University of Colorado Boulder, CO, USA 2015-Present
Fluid Dynamics *Investigated the 2D fluid dynamics of freely-suspended liquid crystals (published)*
Materials Science *Discovered two new phases of matter using electro-optical, X-ray techniques (published)*
Soft Matter *Investigated the nucleation of topological defects in liquid crystal system*

Graduate Researcher NIST, Boulder, CO, USA 2013-2015
Optics *Designed and fabricated whispering gallery optical cavities for laser frequency stabilization applications (published)*

Undergraduate Researcher University of Calgary, AB, CAN 2007-2012
Quantum Optics *Designed an optimally efficient optical quantum memory (published)*
Quantum Statistics *Investigated statistical convergence of bosonic and fermionic systems*
Complexity Science *Studied the time and space correlations of earthquake magnitudes (published)*

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.