

Adam A.S. Green

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KEY SKILLS AND HIGHLIGHTS

Programming	<i>Python</i> (pandas, matplotlib, numpy, scipy, trackpy), <i>FORTRAN</i> (lapack), <i>Mathematica</i> , <i>openFOAM</i> , <i>L^AT_EX</i>
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, Oral presentation at the Ferroelectric Liquid Crystal Conference

EDUCATION

Ph.D Physics	University of Colorado Boulder	July 2019
	<i>-Liquid Crystal Phases and Dynamics: Correlations in the 2D XY Model, Helical Bannana Phases, and 2D Fluid Dynamics</i>	
M.S. Physics	University of Colorado Boulder	May 2015
B.Sc. Physics Honours (First Class)	University of Calgary	May 2011
	<i>-Improving the Efficiency of a Controlled Dipole Quantum Memory</i>	

EXPERIENCE

Graduate Researcher	University of Colorado Boulder, CO, USA	2015-Present
Fluid Dynamics	<i>Investigated the 2D fluid dynamics of freely-suspended liquid crystals (published)</i>	
Materials Science	<i>Discovered two new phases of matter using electro-optical, X-ray techniques (published)</i>	
Soft Matter	<i>Investigated the nucleation of topological defects in liquid crystal system</i>	
Graduate Researcher	NIST, Boulder, CO, USA	2013-2015
Optics	<i>Designed and fabricated whispering gallery optical cavities for laser frequency stabilization applications (published)</i>	
Undergraduate Researcher	University of Calgary, AB, CAN	2007-2012
Quantum Optics	<i>Designed an optimally efficient optical quantum memory (published)</i>	
Quantum Statistics	<i>Investigated statistical convergence of bosonic and fermionic systems</i>	
Complexity Science	<i>Studied the time and space correlations of earthquake magnitudes (published)</i>	

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.