Adam A. S. Green

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KEY SKILLS AND HIGHLIGHTS

Programming	$Python$ (pandas, matplotlib, numpy, scipy, trackpy), $FORTRAN$ (lapack), $Mathematica$, $openFOAM$, \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	
M.S. Physics University of Colorado Boulder	
B.Sc. Physics Honours (First Class) University of Calgary	
EXPERIENC	CE CE
Graduate Researcher University of Colorado Boulder, CO, USA	
Fluid Dynamics Materials Science	
Soft Matter	Investigated the nucleation of topological defects in liquid crystal system
Graduate Researcher NIST, Boulder, CO, USA	
Optics	Designed and fabricated whispering gallery optical cavities for laser frequency stabilization applications (published)
Undergraduate Researcher University of Calgary, AB, CAN	
Quantum Optics	
Quantum Statis	
Complexity Scie	ence Studied the time and space correlations of earthquake magnitudes (published)

PUBLICATIONS

A gas flowmeter with linear sensitivty based on freely-suspended nanofilms... Appl. Phys. Lett. **114**, 163705 (2019) Chiral incommensurate helical phase in a smectic of achiral bent-core mesogens Phys. Rev. Lett. **122**, 107801 (2019) Dual-microcavity narrow-linewidth Brillouin laser Optica Vol 2, **Issue 3**, (2015) Controllable-dipole quantum memory Phys. Rev. A **86**, 013813 (2012)

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Are earthquake magnitudes clustered? Phys. Rev. Lett. 106, 108502 (2011)

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