Education	Doctoral candidate in the physics Ph.D. program, University of Rochester M.A. in Physics, University of Rochester Certificate of College Teaching in Physics, University of Rochester B.S. in Physics, summa cum laude, Houghton College	2011 2010 2009
Awards	Edward Peck Curtis Award for Excellence in Teaching by a Graduate Student Trinity Forum Academy Fellowship American Association of Physics Teachers Award	2012 2012 2010
Research	My research interests are in experimental quantum optics and nonlinear optics, ically working with interactions between coherent light and rubidium. Work he cluded slow light, weak measurements, electromagnetically induced structures is entanglement, and cold atoms.	has in-
	John Howell's research lab, University of Rochester 2010-p	oresent
	o Worked with Brandon Hoffman on the design and contruction of	5-2009
	a variable temperature atomic force microscope Los Alamos National Laboratory, Los Alamos, NM o student researcher, worked with Mark Yuly (Houghton) and Lucy Matthews (MIT) in any law relation.	2008
	June Matthews (MIT) in nuclear physics Cornell University, Ithaca, Ny REU student, worked with Sheff Baker (Cornell) and Brandon Hoffman (Houghton) on characterization of thin silver films	2007
Teaching	I enjoy the rewarding and creative process of teaching, which I believe is no about excellent instruction, but about helping students learn material and skill will equip them for the future and develop them as future scientists and thou people.	ls that
	Instructor, University of Rochester, Rochester, NY	2010
	 Taught and organized Physics 122, Electricity and Magnetism Oversaw all aspects of the course, including lectures, creation of assignmen tests, and grading. 	nts and
	Teaching Assistant, Houghton College, Houghton, NY 2	007-09
	• TA for: General Physics I and II, Physics of Music, Mechanics I and II. Tutor , Houghton College, Houghton, NY	006-07
	, 9 , 9 ,	001-09

Selected Publications

Quantum and classical optics - emerging links J. H. Eberly, XF Qian, A.A. Qasimi, H Ali, M. A. Alonso, R. Gutirrez-Cuevas, B J Little, J C Howell, T Malhotra and A. N. Vamivakas Phys. Scr. 91, 063003 (2016).

Shifting the quantum-classical boundary: theory and experiment for statistically classical optical fields XF Qian, B Little, JC Howell, JH Eberly Optica 2 (7), 611-615 (2015).

Rapidly reconfigurable optically induced photonic crystals in hot rubidium vapor B Little, DJ Starling, JC Howell, RD Cohen, D Physical Review A 87 (4), 053815 (2013).

A Double Lorentzian Atomic Prism David J. Starling, Steven M. Bloch, Praveen K. Vudyasetu, Joseph S. Choi, Bethany Little and John C. Howell Physical Review A 86 (2), 023826 (2012)

Recent Presentations

Experimental Demonstration of Reflection and Refraction of Optical Pulses from Temporal Boundaries B Little, B Plansinis, G Agrawal, J Howell, Frontiers in Optics FF3H.2 (2016)

Nonlinear Optics with Tapered Fibers and Magneto-Optically Trapped Rb B Little, C Mullarkey, H Liang, Q Lin, N Vamivakas, and J C Howell, Poster at the 47th Annual APS DAMOP Meeting, Providence, RI, May 23–27, 2016.

Bell Experiment with Classical Fields, Bethany Little, XF Qian, JC Howell, and JH Eberly, March Meeting of the APS, Baltimore, MD March 18, 2016.

Light Sabers, non-zebras, and other fun with nonlinear optics. Science Colloquium, Houghton College, April 26, 2016. (Invited)

All-Optical Photonic Crystal using Rubidium BJ Little, JC Howell, N Katz, D Shwa Frontiers in Optics, FW5F. 3 (2012)

Leadership Activities

Co-Founder, Quantum Optics Journal Club, Rochester, NY

Coach and Leader, Free Methodist Bible Quizzing in Rochester, NY

Mentor, University of Rochester Carillon Society, Rochester, NY

Conference Organizer, Cross Border Workshop, Rochester, NY

Conference Volunteer, Frontiers in Optics/Laser Science, Rochester, NY

Student Leader, Houghton College, Houghton, NY

2015-present
2015-present
2011-2015
2011-2015
2011-2015