

Jasmine Therese Brewer

Objective	Gain experience in basic research, computational methods, and design in the physical sciences.
Academics	University of Colorado at Boulder Anticipated Graduation: May 2015 Major: Engineering Physics Minors: Mathematics, Computer Science Current GPA: 3.923
Awards	Presidential Scholar, University of Colorado at Boulder Merit Scholar, College of Engineering and Applied Science Engineering Honors Program (EHP) Member, Fall 2011 – Present Dean's List Recognition (Fall 2011-Present), College of Engineering and Applied Science AP Scholar with Distinction and National Merit Commendable Student (2010)
Skills	<ul style="list-style-type: none">• Strong software-development experience, including particular fluency in MATLAB, C++, Java, and C#.• Solid mathematical background, including experience with mathematical methods for theoretical physics and a background in proof-based mathematics.• Electronics and PCB design experience
Professional Experience	<p>Nuclear Theory and Computational Fluid Dynamics, 2013 I am implementing a set of fluid dynamical algorithms for the theoretical study of elliptic flow in cold atomic gases and plasmas.</p> <p>Liquid Crystal Materials Research Center, 2012 – 2013 I was involved in the experimental study of interactions between particles in liquid crystal fields, and am a coauthor on a paper being submitted for publication on this topic. I also became involved in simulations of liquid crystal dynamics while in this group.</p> <p>Optical Remote Sensing Laboratory, Summers 2012 – 2013 (<i>NSF Research Experiences for Undergraduates program, 2012</i>) In 2013 I designed and implemented a set of quantitative image analysis algorithms for an airborne imaging system used to detect leaks at CO₂ sequestration sites. In 2012 I developed an electronic system for optical detection of the aurora borealis.</p> <p>Colorado Space Grant Consortium, 2011 – 2012 I was a member of a small team that designed an electronic system to record atmospheric data during rocket flights.</p> <p>Northwestern Energy, Summer 2011 I conducted a survey of the effectiveness of electrical corrosion protection on natural gas lines.</p>
References	<i>Available Upon Request</i>