

## Jasmine Therese Brewer

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<b>Objective</b>	Gain experience in theoretical research and computational methods in magneto-hydrodynamics and plasma physics
<b>Academics</b>	University of Colorado at Boulder Anticipated Graduation: May 2015 Major: Engineering Physics Minors: Mathematics, Computer Science Current GPA: 3.923 <i>Complete Transcripts Available Upon Request</i>
<b>Awards</b>	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)
<b>Skills</b>	<ul style="list-style-type: none"><li>• Solid mathematical background, including experience with mathematical methods for theoretical physics and a background in proof-based mathematics.</li><li>• Strong software-development experience, including particular fluency in MATLAB, C++, Java, and C#.</li><li>• Electronics and PCB design experience</li></ul>
<b>Professional Experience</b>	<p><b>Nuclear Theory and Computational Fluid Dynamics, 2013</b> I am implementing a set of fluid dynamical algorithms for the theoretical study of elliptic flow in cold atomic gases and plasmas.</p> <p><b>Liquid Crystal Materials Research Center, 2012 – 2013</b> 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><b>Optical Remote Sensing Laboratory, Summers 2012 – 2013</b> (NSF Research Experiences for Undergraduates program, 2012) In 2013 I designed and implemented a set of quantitative image analysis algorithms for an airborne imaging system used to detect leaks at CO<sub>2</sub> sequestration sites. In 2012 I developed an electronic system for optical detection of the aurora borealis.</p> <p><b>Colorado Space Grant Consortium, 2011 – 2012</b> I was a member of a small team that designed an electronic system to record atmospheric data during rocket flights.</p> <p><b>Northwestern Energy, Summer 2011</b> I conducted a survey of the effectiveness of electrical corrosion protection on natural gas lines.</p>
<b>References</b>	<i>Available Upon Request</i>