# Curriculum Vitae

## Jasmine Therese Brewer

CONTACT INFORMATION	
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EDUCATION	
University of Colorado at Boulder, Boulder, CO  Anticipated Graduation May 2015  B.Sc. Engineering Physics, Minor: Mathematics  GPA 3.95/4.0	2011 - Present
HONORS AND AWARDS	
Barry M. Goldwater Scholar  Astronaut Scholarship Foundation (ASF) finalist  Presidential Scholar, University of Colorado at Boulder  J.H. Cole Merit Scholar, College of Engineering and Applied  Engineering Honors Program (EHP) member	
RESEARCH	
Nuclear Theory and Computational Hydrodynamics Asst. Professor Paul Romatschke, University of Colorado at Project Title - Hydrodynamics of Cold Quantum Gases at University	Boulder
Theoretical Magnetohydrodynamics	
Liquid Crystal Materials Research Center	
Optical Remote Sensing Laboratory	
Sequestration Sites $Project\ Title\ 2012$ - Design of an Optoelectronic System to I	Detect the Aurora Borealis

#### SERVICE AND OUTREACH

### **PUBLICATIONS**

- 1. **Jasmine Brewer**, P. Romatschke, and M. Mendoza. "Hydrodynamics Simulations of cold atomic gases at unitarity." *In preparation*
- 2. M.B. Pandey, T. Porenta, **J. Brewer**, A. Burkhart, S. Čopar, S. Žumer, and Ivan. I. Smalyukh. "Self-assembly of skyrmion-dressed chiral nematic colloids with tangential anchoring." *Phys. Rev. E* 89, 060502 (2014)
- 3. Joseph. A. Shaw, Paul W. Nugent, Sean Nicolaysen, and **Jasmine Brewer**. "Balloon-borne multispectral imaging of vegetation to detect  $CO_2$  gas leaking from underground." In preparation

#### **PRESENTATIONS**

- 1. "Modeling a super-hot, above-the-loop-top thermal HXR source as the slow-shock-heated reconnection outflow." **J. Brewer**, D. Longcope, J. Qiu, A. Caspi. 2014 LWS / Hinode / IRIS Meeting. Portland, OR. Poster.
- 2. "Field-Controlled Interactions and Self-Assembly of Colloidal Particles in Confined Chiral Nematic Liquid Crystal." **Jasmine Brewer**, Manoj Pandey, Ivan Smalyukh. *2013 Materials Science and Engineering Seminar*. Boulder, CO. Poster.
- 3. "Sensitive Optoelectronic Detection of the Aurora Borealis." **Jasmine Brewer**, Nathan Pust, Joseph A. Shaw. 2012 Optical Technology Center Conference. Bozeman, MT. Poster.