# Curriculum Vitae

## Jasmine Therese Brewer

CONTACT INFORMATION	
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EDUCATION	
University of Colorado at Boulder, Boulder, CO	
HONORS AND AWARDS	
Barry M. Goldwater Scholar  Astronaut Scholarship Foundation finalist, University of Color  Presidential Scholar, University of Colorado at Boulder  Merit Scholar, College of Engineering and Applied Science  Engineering Honors Program (EHP) member	rado at Boulder 2014 2011 - Present 2011 - Present
RESEARCH	
Nuclear Theory and Computational Hydrodynamics . Asst. Professor Paul Romatschke, University of Colorado at E Project Title - Hydrodynamics of Cold Quantum Gases at Un	Boulder
Theoretical Magnetohydrodynamics	
Liquid Crystal Materials Research Center	
Optical Remote Sensing Laboratory	
Project Title 2012 - Design of an Optoelectronic System to De	etect the Aurora Borealis

#### SERVICE AND OUTREACH

<b>CU Prime</b> (CU')	 13 - Present
Colorado Space Grant Consortium	 2011 - 2012

### **PUBLICATIONS**

- 1. 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)
- 2. 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. "Field-Controlled Interactions and Self-Assembly of Colloidal Particles in Confined Chiral Nematic Liquid Crystal" *Materials Science and Engineering Seminar* Spring 2013, University of Colorado at Boulder. Poster.
- 2. "Sensitive Optoelectronic Detection of the Aurora Borealis" *Optical Technology Center Conference* Summer 2012, Montana State University Bozeman. Poster.