

Angela Colman Des Jardins, PhD  
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APPOINTMENTS:

2009 – Present: Director, Montana Space Grant Consortium and Montana NASA EPSCoR.  
2007 – 2009: Deputy Director, Montana Space Grant Consortium (MSGC).  
2002 – 2007: Graduate Research Assistant (Solar Phys) and GTA (Phys), MSU.  
2004 - 2006: Manager, Space Public Outreach Team (SPOT), MSU.  
1998 - 2001: Research Assistant, Solar Physics Research Group, MSU.  
1998 - 2001: Holography Lab Assistant/Teacher's Assistant, MSU Phys.  
2000 (summer): Space Scholar, Hanscom Air Force Base in Lexington, Massachusetts.  
1999 (summer): Research Associate, Goddard NASA Academy in Greenbelt, Maryland.  
1998 - 1999: Undergraduate Presenter, Mars Public Outreach Project (MPOP).  
1997 - 1998: Youth ALIVE! Program Manager, Museum of the Rockies.  
1996 (summer): NASA SHARP PLUS Apprenticeship, San Francisco, CA.  
1994 - 1996: Youth ALIVE! Education Intern, Museum of the Rockies.

PROFESSIONAL PREPARATION:

2007: PhD in physics, Montana State University (MSU).  
2004: MS in physics, MSU.  
2001: BS in physics and honors with minors in math and German at MSU.

GRANT ADMINISTRATION EXPERIENCE:

- 1) PI on nine current federal grants totaling \$8.5M.
- 2) Written or co-written proposals for more than two dozen federal grants.
- 3) Awarded and administered more than three dozen grants and subcontracts to PIs across Montana.
- 4) Participant on numerous NASA and NSF science and education review panels.

PROFESSIONAL ACTIVITIES:

- 1) Elected Chair of the NASA EPSCoR Caucus, Mar 2013 – present.
- 2) Elected member of the National Space Grant Foundation board, Jan 2012 - present.
- 3) Co-chair of the National Space Grant Student Satellite Program board, 2011 - present.
- 4) Elected member of the National Space Grant Alliance board, 2010-2013.
- 5) Member of several advisory boards, including two Tribal College and University Program (TCUP) boards, the MSU Women In Science and Engineering (WISE) advisory board, and the Montana Big Sky Space Education Evaluation Committee.

TEACHING/EDUCATIONAL OUTREACH EXPERIENCE:

- 1) Committee member for several physics graduate students 2008- present.
- 2) Research mentor for 11 undergraduate students in the solar REU program, 2005-present.

- 3) Wrote laboratory manual for new physics junior level astronomy course, 2003-2005.
- 4) Taught numerous laboratory sections for the MSU physics department, 1998-2005.
- 5) Taught/led/volunteered for countless sessions for Expanding Your Horizons (EYH), FIRST Robotics, DOE Science Bowl, Peaks and Potentials, Astronomy Day, Laurel Aviation and Technology Week, and Science Olympiad, 1998 - Present.

#### SAMPLE PUBLICATIONS:

- 1) Joseph A. Shaw, Paul W. Nugent, Nathan Kaufman, Nathan J. Pust, Devin Mikes, Cassie Knierim, Nathan Faulconer, Randal Larimer, Angela Des Jardins, Berk Knighton, 'Multispectral imaging system on tethered balloons for optical remote sensing education and research', *Journal of Applied Remote Sensing*, Jan 2013.
- 2) Williamson, K. E., Des Jardins, A., Larimer, R., Key, J., McKenzie, D., Taylor, S., Shaw, J. A., Cornish, J., Kanode, C., Webbink, K., 'Successfully Targeting a Variety of Populations and Cultures in Montana with Space Education and Outreach', *62<sup>nd</sup> International Astronautical Congress* Manuscript IAC-11.E1.12, 2011.
- 3) Longcope, D. W., Des Jardins, A. C., Carranza-Fulmer, T.\*, Qiu, J., 'A Quantitative Model of Energy Release and Heating by Time-dependent, Localized Reconnection in a Flare with Thermal Loop-top X-ray Source', *Solar Physics*, Nov 2010.
- 4) Kazachenko, M., Canfield, R.C., Longcope, D. W., Qiu, J., Des Jardins, A.C., Nightingale, R., 'Sunspot Rotation, Flare Energetics, and Flux Rope Helicity: The Eruptive Flare on 2005 May 13', *Astrophysical Journal*, Oct 2009.
- 5) Des Jardins, A.C., Canfield, R.C., Longcope, D., McLinden, E.\*, Dillman, A.\*, 'Signatures of Magnetic Stress Prior to Three Solar Flares Observed by RHESSI', *Astrophysical Journal*, March 2009.
- 6) Des Jardins, A.C., Canfield, R.C., Longcope, D., Fordyce, C.\*, Waitukaitus, S.\*, 'Reconnection in Three Dimensions: The Role of Spines in Three Eruptive Flares', *Astrophysical Journal*, March 2009.
- 7) Des Jardins, A. C., Canfield, R. C., 'Preflare Phenomena in Eruptive Flares', *Astrophysical Journal*, Nov 2003.

\*MSU Solar Physics REU students

#### OTHER KEY FEDERAL INVOLVEMENT:

- Education/Outreach Project co-lead, NASA IRIS (Interface Region Imaging Spectrograph) Mission.
- Member of NASA RHESSI (Ramati High Energy Solar Spectroscopic Imager) Max Millennium team, 2005-2008.