Roy T. Smart

226 Barnard Hall
Bozeman, Montana 59717
(801) 906-1539
roy.smart@montana.edu

EDUCATION

Ph.D., Physics, Expected May 2020
Montana State University, Bozeman, MT

B.S., Physics, May 2015
Montana State University, Bozeman, MT

RESEARCH INTERESTS

Solar Physics: Solar transition region, explosive events, coronal heating.
Optics: Computed tomography imaging spectroscopy, photon sieves.
Scientific Computing: Neural networks, evolutionary algorithms, deconvolution.

EXPERIENCE

Graduate Research Assistant **Fall 2015 - Present**
Montana State University, Kankelborg Research Group, Bozeman, MT
Associated with MOSES III/ESIS solar sounding rocket:

- Data processing.
- Modeling CCD temperature bias.
- Performing optical alignment.
- Developing ground station software.

Graduate Teaching Assistant **Spring 2016**
Montana State University, Bozeman, MT
Lab TA for PHSX 220, Instructor: Dr. Nick Childs

Research Assistant **Spring 2013 - Spring 2015**
Montana State University, Kankelborg Research Group, Bozeman, MT
Associated with MOSES II solar sounding rocket:

- Performed thermal analysis of optical mount.
- Developed software used on embedded system for command and control of MOSES instrument during flight.
- Supported launch operations.

SELECTED POSTERS

Smart, R., Courrier, H., and Kankelborg, C. (2016), "Preliminary Results of the MOSES II 2015 Flight", AAS/Solar Physics Division Meeting, volume 47, page 309