

Christopher M. Bert

Education

- since 2017 PhD Pre-Candidate in Space Physics
*Department of Climate and Space Sciences and Engineering
University of Michigan, Ann Arbor*
- since 2016 MEng in Space Systems Engineering
*Department of Climate and Space Sciences and Engineering
University of Michigan, Ann Arbor*
- 2012–2016 BS in Physics, BS in Astronomy
*Department of Physics, Department of Astronomy
University of Massachusetts Amherst*

Research/Project Experience

- since 2017 Graduate Student Research Assistant for Justin C. Kasper, PhD
*Department of Climate and Space Sciences and Engineering
University of Michigan, Ann Arbor*
- 2016-2017 Science Team Lead, Miniature Tether Electrodynamic Experiment (MiTEE)
*Department of Climate and Space Sciences and Engineering
University of Michigan, Ann Arbor*
- Formulated mission science requirements with PI Brian Gilchrist, PhD
 - Managed students designing the CubeSat's science payload consisting of thermionic electron emitters, a deployable anode, and a Langmuir probe
 - Machined prototype housing components for the electron emitters
- 2015 Engineering Intern, Ballistic Missile Defense Radar Systems
MITRE Corporation, Bedford, MA
- Adapted a published analytical model into MATLAB
 - Proved its efficiency for evaluating phased radar array performance
- 2014 Research Intern, Mercury Solar Wind Interactions
*National Science Foundation Research Experience for Undergraduates
Department of Climate and Space Sciences and Engineering
University of Michigan, Ann Arbor*
- Analyzed abundance data from the FIPS instrument on MESSENGER
 - Investigated precipitation of ions into Mercury's northern magnetic cusp

- 2013 Research Intern, Magnetic Nanoparticles for Nuclear Waste Remediation
National Science Foundation Research Experience for Undergraduates
Department of Physics
University of Idaho, Moscow
- Assisted in fabrication and testing of single dipole iron nanoparticles
 - Characterized particle flow in suspension along magnetic field gradients

Professional Service

- since 2016 National Secretary, SEDS-USA Board of Directors
Students for the Exploration and Development of Space (SEDS)
- 2016 Volunteer, Xplore Engineering educational outreach workshop
College of Engineering, University of Michigan

Conference Poster Presentations

Christopher M. Bert, Justin C. Kasper, Kristopher G. Klein, Anthony W. Case (2017),
Simple Dependence of Proton Temperature on Solar Wind Speed and Compression in High
Alfven Mach Number Solar Wind, Abstract SH11B-2448 presented at 2017 AGU Fall
Meeting, New Orleans, LA, 11-15 Dec.