Undergraduate Research Projects AY16-17

Faculty Name	Student Name and Project
Baalrud	• Patrick Adrian: Neutral Damping of Two-Stream instabilities • Zachary Luppen: Iowa Planeterrella
Boggess	
Flatté	
Fu	• Sophie Deam: Spectral indices analysis for SDSS/MANGA data cubes • Jacob Isbell: Binary AGNs in Stripe 82 field with wide-field radio surveys
Gayley	
Goree	• Se Hyun Chun
Gurnett	• Jason Granroth: was a student data technician for the U. of Iowa Mars Express/MARSIS investigation. • Leah Granroth: was a student data technician for the U. of Iowa Mars Express/MARSIS investigation. • Sean Harlem: was a student engineering technician working on radiation analysis for the U. of Iowa JUICE/RIME project. • Matt Leiffert: was a student data technician working on the digitization of U. of Iowa Juno Waves data. • Morgan Matheny: was a student data technician on the U. of Iowa Van Allen Probes investigation. • Tristan Morris: is a student data technician working on several U. of Iowa projects: Voyager, Cassini, and Juno investigations. • Nhan Tran-Phan: is a student data technician who has worked on two U. of Iowa projects: Cassini and Mars Express/MARSIS investigations.
Halekas	• Caleb Raman: MAVEN Data Analysis • Logan Reed: Calibration of Lab Ion Source • Tianshi Xie: MAVEN Data Analysis
Howes	
Kaaret	• Liza Casella: X-Rays from Lyman Emitting Galaxies • William Fuelberth: HaloSat – a CubeSat to study the hot Galactic halo • Jesse Haworth: HaloSat – a CubeSat to study the hot Galactic halo • Ross McCurdy: HaloSat – a CubeSat to study the hot Galactic halo • Drew Miles: HaloSat – a CubeSat to study the hot Galactic halo • David Trieweiler: The Cherenkov Telescope Array • Riley Wearmouth: HaloSat – a CubeSat to study the hot Galactic halo • Keith White: HaloSat – a CubeSat to study the hot Galactic halo
Kleiber	

Kletzing	• Armond Luthens: Development of tracky database • Mackenzie McLouth: Development of tracky database
Lang	
Mallik	• Elizabeth Helfenberger: Simulation for the High Granularity Timing Detector
Merlino	
Meurice	• Sonali Durham: Numerical study of Poincare sections; edition of lectures notes on differential equations and classical mechanics.
Mutel	• Sophie Deam: Thermal gyro-synchrotron emission as a probe of coronal magnetic fields. • Erin Maier: Thermal gyro-synchrotron emission as a probe of coronal magnetic fields. • Tyler Stercula: Thermal gyro-synchrotron emission as a probe of coronal magnetic fields. • Dani Lipman: Spectral mapping of magnetic structures on the ultracool dwarf 2MASS J0746425+200032. • Christopher Michael: Grism spectrometer display software for small automated telescopes.
Nachtman	• Trevor Knuth • Cory Rude
Onel	• Bridget Quesnell: Photodefector System Testing • Jeffrey Schnell: Photodefector System Testing
Polzyou	
Prineas	• Jordan Archer: X-ray Diffraction Analysis of Semiconductor Heterostructures
Pryor	
Reno	
Rodgers	
Scudder	
Skiff	• Joseph Grabarits: Developing a diode-pumped Nd YLF laser for plasma spectroscopy. • Anthony Rogers: A two-frequency inductively-coupled plasma source for independent density and temperature control.
Smirl	
Spangler	
Wohlgenannt	