

Undergraduate Research Projects AY17-18

Faculty Name	Student Name and Project
Baalrud	<ul style="list-style-type: none"> Zach Luppen - "Development of the Iowa Planetterella"
DeRoo	
Flatté	
Fu	<ul style="list-style-type: none"> Sophie Deam – Aug 2016 - Aug 2017, graduated in Spring 2018. VLA confirmatino of kpc-scale binary AGNs in Stripe 82 (VLA proposal #: VLA/18A-005) Orbit integration code for AR sandbox: Gravbox Website AAS Abstract A python code to measure stellar absorption indices in optical spectra Jacob Isbell - Oct 2015 - Aug 2018, now at MPIA for graduate study. The evolution of molecular gas fraction in star-forming galaxies (ApJL submitted, arXiv:1811.03107) Flat-spectrum double radio cores: strong gravitational lenses? (VLA proposal #: VLA/18A-195) Orbit integration code for AR sandbox: Gravbox Website AAS Abstract ALMA 870um observations of submillimeter galaxies along QSO sightlines 2017ApJ...844..123F
Gayley	
Goree	<ul style="list-style-type: none"> Tony Ball - Data analysis for plasma physics experiments on the PK-4 instrument aboard the International Space Station
Gurnett	<ul style="list-style-type: none"> Jason Granroth – Cassini data analysis support; surveyed data for events to be analyzed by research staff Eli Gregorich – Mars Express data analysis support; processed data for analysis by research staff Joshua Kamp – Mars Express data analysis support; processed data for analysis by research staff Zach Luppen – Jupiter Icy Moons Explorer and Europa Clipper instruments software development support; assisted engineers with software development Xinyu Mai – Mars Express data analysis support; processed data for analysis by research staff Caleb Raman – worked for J. Halekas (Maven) several years ago, now works for the high energy physics group Daniel Reinart – Mars Express data analysis support; processed data for analysis by research staff Emily Silich - Mars Express data analysis support; processed data for analysis by research staff
Halekas	<ul style="list-style-type: none"> Kelly Reed - Laboratory ion beam source calibration Jacob Cowsky – High voltage power supply design for the ICI-5 Bifocal sounding rocket experiment Brandon Garcia – High voltage power supply design for the ICI-5 Bifocal sounding rocket experiment Dani Lipman – The Martian bow shock

Howes	
Jaynes	
Kaaret	<ul style="list-style-type: none"> • William Fuelberth – Halosat - a CubeSat to study the hot Galactic halo • Hannah Gulick – Halosat - a CubeSat to study the hot Galactic halo • Ross McCurdy – Halosat - a CubeSat to study the hot Galactic halo • Christopher Michael – Development of a multiband imager for a CubeSat to measure air pollution • Sam Ponnada – X-rays from X-ray binaries in the early universe • Emily Silich - Development of a hard X-ray polarimeter
Kirchner	<ul style="list-style-type: none"> • Joseph A’Hearn – • Tyler Carlson – • Zach Luppen – • Thomas McDowell – • Cory Rude – • Joseph Senchuk – • Joe Sink – • Christopher Sosnowski -
Kleiber	
Kletzing	<ul style="list-style-type: none"> • Jesslyn Coghlan – • Eli Gregorich – • Robin Howk – • Thomas McDowell
Lang	<ul style="list-style-type: none"> • Genna Crom – • Nicholas Jones – • Hailey Moore -
Mallik	
Merlino	
Meurice	
Miles	
Mutel	<ul style="list-style-type: none"> • Maxwell Bernstein – • Sean Lansing – • Joshua Larson – • Zach Luppen – • Christopher Michael-
Nachtman	<ul style="list-style-type: none"> • Cory Rude – development of radiation-hard scintillators. • Jeffrey Schnell- designing and building prototype circuits.
Onel	<ul style="list-style-type: none"> • Nicholas Price – working on prototype quartz cube calorimeter for future generation high energy particle collider experiments."
Polyzou	
Prineas	<ul style="list-style-type: none"> • Andrew Muellerleile- EQE Measurements in Mid-Infrared Superlattice Structures
Pryor	
Reno	
Rodgers	
Scudder	
Skiff	
Smirl	
Spangler	

Wohlgenannt	
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