Faculty Name	Student Name	Project
Candido	**Jeff Leiberton**	Use of topological magnons for entangling NV-center spins, and sensing of topological magnons via magnon-induced NV-center relaxation
	Noah Bjerk	Enhancement of NV-center sensitivity via non-Hermitian exceptional points
	Noah Wessels	Study of topological magnons in stacked and twisted two-dimension van der Waals magnets
DeRoo	**Alex Kay**	Thermal Forming Small X-ray Mirrors for Adjustable X-ray Optics
	Jeff Leiberton	X-Ray Analysis of SNR J0541-6659 in the Large Magellanic Cloud
Folland	**Aditya Desai**	Extracting the optical properties of semiconductor materials
	Mehdi Assem	Automated mapping of optical properties
	Siddharth Nandanwar	Cryogenic spectroscopy of low symmetry 2D materials
Fu	**Ryan Dunn**	Statistical Inference of the Edge-on Thickness of Disk Galaxies with Dark Energy Survey Legacy Imaging Data
Halekas	**Ian Silva**	P3 Instrument Development
	Melissa Peters	Electron Cyclotron Harmonic Waves Observed near the Moon by the THEMIS-ARTEMIS spacecraft
	Scott Donnellan	P3 Instrument Development
Hoadley	**Christian O'Brien**	Working with Keck/NIRSPEC spectra of a stellar merger remnant from a recent collision to understand the characteristics of it and its surroundings before it settles down to a final equilibrium state and preparing our Ultraviolet light measurement chamber to measure state-of-the-art reflection gratings
	Emilio Jarrin	Working with Keck/KCWI spectro-imaging data of FIREBall-2 selected galaxies to try to detect signals from metals in their circumgalactic media, providing complimentary data to what FIREBall-2 is looking for (hydrogen in their halos)
	Jack Kelley	Using Keck/HIRES spectra of a stellar merger remnant from a recent collision to look for signs of lithium in the remnant's atmosphere, which will help us differentiate what kind of companion (either a large planet or another star) the remaining remnant engulfed

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Hoadley	**Jack Kelley**	Assisting in development of an all-purpose graphic user interface (GUI) to log laboratory environmental data and running the automated stages and cameras in the Ultraviolet light measurement chamber
Jaynes	**Emerson Peters**	SPARK Outreach Program
	Kyle Junkunc	Radiation Belts Data Analysis
	Rebekah Brown	SPARK Outreach Program
	Susanne Byrd	Radiation Belts Data Analysis
Meurice	**Aditya Venkatesh**	Real-time quanutm calculations of phase shifts using wave packet time delays
	Will Koozer	Real-time evolution with quantum computers
Nachtman	**Avi Kaufmann**	Machine learning for neutrino detectors
	Jacob Andrews	Machine learning for neutrino detectors, Eos application studies
	Mary Haag	Silicon tracker and barrel timing upgrade for CMS, geant simulations
	Nolan Blodig	Eos detector simulation
	Tom Bruner	Photon detectors for DUNE, silicon tracker upgrade for CMS
	Zeke Young	Geant simulation for cosmic ray detectors
Prineas	**Stephon Berry**	Restore an ultrafast pump-probe setup for measurement of carrier lifetime in long-wave infrared semiconductor superlattices, and to measure the properties of select samples and designs
	Will Meiner	Restore an ultrafast pump-probe setup for measurement of carrier lifetime in long-wave infrared semiconductor superlattices, and to measure the properties of select samples and designs
Rodgers	**Eric Biedke**	Aspects of Thomas-Whitehead Gravity
	Mehdi Assem	Aspects of Thomas-Whitehead Gravity
	Owen Fiedorowicz	Aspects of Thomas-Whitehead Gravity
Uppu	**Aden Hageman**	Characterizing single-photon emission from droplet-etched gallium antimonide quantum dots
	Henry Hammer	Efficient light-matter interactions in heterogeneous nanophotonic waveguides for enabling quantum interconnects

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Uppu	**Kieran Coe**	Telecom-band emission from tensile-strain indium gallium arsenide quantum dots
	Philippe Jay	Building a setup for high-resolution, polarization-insensitive spectroscopy of single quantum emitters