

Dylan Conner

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Summary of Employment

Graduate Research Assistant, Advisor: Dr. Katherine Goodrich

Morgantown, WV

WVU Department of Physics and Astronomy

June 2022 – Present

- PSP – data analysis using IDL and Python SPEDAS
- RockSat-X – formulation and implementation of probes to be used in rocket payload
- TRACERS – calibration and instrumentation testing of electrical components
- MMS – data analysis using IDL SPEDAS to examine electron Bernstein waves + shocks
- LIEFSI – testing/calibration of micro-scale lab sensors

Graduate Teaching Assistant

Morgantown, WV

WVU Department of Physics and Astronomy

Aug 2021 – May 2022

- Served as teaching assistant for introductory undergraduate electricity and magnetism physics course

Undergraduate Research, Advisor: Dr. Paul Cassak

Morgantown, WV

WVU Department of Physics and Astronomy

May 2020 – Sept 2020

- Computation and data analysis with PHASMA
- Understanding of MHD and Sweet-Parker reconnection theory associated with computation

Education

West Virginia University
Master of Science

Morgantown, WV
Aug 2021 – present

West Virginia University
Bachelor of Science

Morgantown, WV
Aug 2017 – May 2021

Research Experience

- Coding experience in Python and IDL languages
- Lab and instrumentation experience in calibration testing for EFI instrument suite components for TRACERS mission (scheduled launch _____)
- Data analysis and manipulation techniques examining Parker Solar Probe (PSP) Venus Gravity Assist (VGA) data to calculate + calibrate electric field data from voltage probes aboard PSP
- Developing and testing electric field probe/Langmuir probe instrument to be launched via sounding rocket through Wallops RockSat-X program
- Served as 2022-2023 Secretary for West Virginia University Physics and Astronomy Graduate Student Organization; recorded meeting minutes and served as primary communicator from WVU PAGSO to graduate student body

- ESA (ElectroStatic Awareness) safety certification
- EHS Hazardous Waste trained

Summary of Achievements

Relevant Presentations and Publication

AGU (American Geophysical Union) poster presentation.....	<i>San Francisco, CA: Dec 2023</i>
GEM (Geospace Environment Modeling) poster.....	<i>San Diego, CA: June 2023</i>
MAVEN PSG (Mars Atmosphere and Interplanetary EvolutionN Project Science Group) poster.....	<i>Boulder, CO: May 2023</i>
AGU talk, “Calculating and Examining Electric Fields in the Venusian Plasma Environment using PSP”.....	<i>Chicago, IL: Dec 2022</i>
PSP Scholar’s School talk.....	<i>Virtual: Nov 2022</i>
KINETIC Center (WVU Center for KINetic Experimental, Theoretical, and Integrated Computational Plasma Physics).....	<i>Morgantown, WV: July 2022</i>
SHINE (Solar, Heliospheric, and Interplanetary Environment) poster	<i>Honolulu, HI: June 2022</i>
GEM poster.....	<i>Honolulu, HI: June 2022</i>
“Non-Lightning-Generated Whistler Waves in Near-Venus Space”	<i>George(+), GRL, 2023</i>

Awards/Honors/Roles

Payload selected for flight for 2023-2024 Wallops RockSat-X	<i>Nov 2023</i>
Elected as WVU PAGSO (Physics and Astronomy Graduate Student Organization) secretary officer.....	<i>Nov 2022 – Nov 2023</i>
Cum Laude + Honors College graduate.....	<i>May 2021</i>

***last updated Feb 2024**