

Contact

www.linkedin.com/in/michael-ritter-5982a7124 (LinkedIn)

Top Skills

Quantitative Research

Presentation Skills

Proposal Writing

Honors-Awards

Magellan Mini-Grant Scholar

Dean's Fellowship

Publications

Transient IR spectroscopy of optically centrifuged CO₂ (R186–R282) and collision dynamics for the J = 244–282 states

Michael Ritter

PhD Candidate: Physical (Quantum) Chemist, Laser Optics Specialist

Washington, District of Columbia, United States

Summary

I have spent the last 5+ years researching the niche overlap of quantum physics and chemistry. Specifically, I have led a laser optics lab devoted to discovering the effects of high energy optical traps on common atmospheric molecules. As I move past my PhD work I would like to use my diverse technical knowledge to enter the workforce as a technical advisor in the semiconductor, energy and/or quantum technology fields.

Experience

University of Maryland

4 years 7 months

PHD Candidate

November 2022 - Present (2 years 4 months)

PHD Graduate Student

August 2020 - November 2022 (2 years 4 months)

College Park, Maryland, United States

Mullin Group

Graduate Research And Teaching Assistant

November 2020 - November 2022 (2 years 1 month)

College Park, Maryland, United States

Angel Group - Laser Spectroscopy

Undergraduate Research Assistant

May 2019 - August 2020 (1 year 4 months)

University of South Carolina

Dr. Angel's group designs and tests remote Raman and LIBS laser spectroscopy for use in deep ocean and planetary exploration. Current developments in Monolithic Spatial Heterodyne Spectrometers are being explored in these fields. Our recent efforts have been partly in conjunction

with the Mars Rover 2020 mission and is being considered for a future Europa mission.

Education

University of South Carolina

Bachelor of Science - BS, Chemistry · (2015 - 2020)