John W. Janisch
Physics Graduate Student

10812 Glen Cove Circle, Unit 103, Orlando, FL 32817

Tel: 608-697-1445

Employment History

University of Central Florida Department of Physics – Aug 2020 – Present
Graduate Teaching Assistant

- Lead undergraduate physics laboratory sessions

- Answer questions and resolve issues relating to the laboratory experiments

- Facilitate student comprehension and understanding of laboratory materials

Michigan Technological University Fellowship (Dr. Yoke Khin Yap Laboratory) – Jan 2019 – April 2020
Research Assistant

- Designed an improved cooling system for a tip sonicator

- Researched optimizing chemical vapor deposition (CVD) synthesis systems for boron nitride nanotubes

- Manage individual daily laboratory operations in support of the research, including setup and overall operational efficiency

Stabilux (Dr. Yoke Khin Yap Laboratory) – May 2019 – April 2020
Research Assistant

- Privately funded extension of research work as noted in the above section

Columbia County Dept. of Parks and Recreation – May-Aug 2017 and 2018
Summer Position for Maintenance of County Land

- Provided leadership for placement of crew and performance of tasks related to park and county land upkeep

- Included tasks such as lawn mowing, storm-damage cleanup, facility maintenance, and ensuring equipment was functional

- Provided support for highway crew as needed for traffic flow and/or additional workers on road projects

Education

- Ph.D, Physics, University of Central Florida, Orlando, Florida; In progress, started study in August 2020

- Bachelor of Science degree, Physics, Michigan Technological University, Houghton, Michigan; Graduated May 2020

CONFIDENTIAL – PERSONAL INFORMATION

Memberships/Awards

- American Physical Society Division on Soft Matter 2024 Future Investigator Travel Award
- University of Central Florida College of Science Presentation Fellowship 2024
- University of Central Florida College of Science Presentation Fellowship 2023
- Society of Physics Students
- National Honor Society (inducted 2016)

Conference Presentations

- Janisch, J., Le, D., Rahman, T. S. (2024, March 3-8) Development of machine learning potential for hexagonal boron nitride with strictly local equivariant deep neural network [Conference presentation]. APS 2024 March Meeting, Minneapolis, MN
- Janisch, J., Le, D., Rahman, T. S. (2023, March 5-10) Impact of grain boundaries on thermal conductivity in hexagonal boron nitride sheets: a study based on neural network potentials [Conference presentation]. APS 2023 March Meeting, Las Vegas, NV

Other

- Student Ambassador, People to People International – 2012, 2015; gained knowledge in other cultures, including experience in ecological and social projects in the countries visited