

Dane Kealii Gollero

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EDUCATION

University of Utah, Salt Lake City, Utah
GPA: 3.714/4.00
B.S. in Physics, Applied Mathematics

2015 – 2021

PROGRAMMING LANGUAGES

Python, Java, C++, MATLAB

PROJECTS AND INDEPENDENT STUDIES

- [Higgs boson discovery analysis](#) (final project PHYS 3719 | University of Utah) Spring 2021
- [GPS simulator](#) (final project MATH 5600 | University of Utah) Spring 2021
- [Dark Matter Spectra Generator \(DMSG\)](#) (University of Utah) Summer 2019

WORK EXPERIENCE

- **Tutor, BuffTutor Network**, Salt Lake City Fall 2021
Tutors college calculus and physics courses (8 hours per week)
- **Teaching Assistant**, Department of Physics, University of Utah (10 hours per week) Spring – Summer 2020
PHYS 2010 and PHYS 2220
- **Teaching Assistant**, Department of Physics, University of Utah (10 hours per week) Fall 2018
PHYS 2225
- **Tutor, Engineering Statics Tutor**, University of Utah Fall 2020

ACADEMIC RESEARCH EXPERIENCE

- Participant**, Georgia Tech REU
Advisors: Dr. Siddhi Krishna, Dr. Marissa Loving Summer 2021
- Studied the braid index of 1-bridge braids, an important class of knots in low-dimensional topology
- Undergraduate Research Assistant**, Department of Physics
PI: Professor Vikram Deshpande Spring 2020
- Worked for a semester on electronic transport, gathering graphene for experimentation and data analysis
- Undergraduate Research Assistant**, Department of Physics
PI: Professor Ken Golden Spring 2018 – Fall 2019
- Saddle points of the Sea Ice Surface and the Fractal Geometry of Arctic Melt Ponds
- Undergraduate Research Assistant**, Department of Physics
PI: Professor Pearl Sandick Spring 2019 – Summer 2019
- Distinguishing Dark Matter: a Photon Story
 - Researched indirect detection methods for dark matter with Professor Sandick in conjunction with the Summer Undergraduate Research Program (SURP) at the University of Utah

LEADERSHIP

- Chair, Undergraduate Student Advisory Committee, Dept. of Physics and Astronomy June 2020 – May 2021
- Undergraduate Curriculum Reform committee member (University of Utah) Spring – Fall 2021