

Iris Mowgood

For most recent publications, visit: www.irismowgood.com
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EDUCATION

CHAPMAN UNIVERSITY
PHD IN COMPUTATIONAL
AND DATA SCIENCES
Expected Grad. 2023
| Orange, CA USA

CAL STATE FULLERTON
M.Sc IN PHYSICS
Grad. 2016 | Fullerton, CA USA

UC SANTA CRUZ
B.Sc IN PHYSICS EDUCATION
Grad. 2013 | Santa Cruz, CA USA

SOFTWARE

PROGRAMS

Comsol Multiphysics
Matlab
Mathematica
Adobe Suite

LANGUAGES

Python
R
C++
Java

COURSEWORK

GRADUATE

Data Mining
Mathematical Modeling
Multivariate Analysis
Solid State Physics
Quantum Mechanics

SKILLS

- Data Visualization
- Time-dependent Modeling
- Statistical Analysis
- 3D Printing
- Building / Upgrading PCs
- Client API
- Communication and Outreach

EXPERIENCE

INSTITUTE FOR QUANTUM STUDIES | RESEARCH ASSISTANT

September 2018-Current | Remote Work

- Working remotely, under the supervision of Dr. Armen Gulian, modeling superconductivity using Comsol Multiphysics and automating modeling tasks with Matlab.

GOLDEN WEST COLLEGE | ADJUNCT LECTURER

January 2022 - Current | Huntington Beach, CA

- Courses taught: Introduction to Astronomy lecture, and Algebra-Based Electromagnetism Physics lecture and lab.

CHAPMAN UNIVERSITY | ADJUNCT PHYSICS LECTURER

September 2016 – December 2018 January 2022-Current | Orange, CA

- Courses taught: Calculus-Based Mechanical Physics for Life Science Students lecture and lab, Calculus-Based Electromagnetism Physics for Life Science Students lecture.

PHYSICS DEPT. OF CAL STATE FULLERTON | ADJUNCT LECTURER

September 2019 - June 2020 | Fullerton, CA

- Courses taught: Introduction to Astronomy.

ORANGE COAST COLLEGE | ADJUNCT LECTURER

September 2016 – June 2018 | Costa Mesa, CA

- Instructor for the Physics and Astronomy Department. Courses taught: Mechanical Physics lecture and lab, Conceptual Physics lecture, and Introductory Astronomy lab.

CYPRESS COLLEGE | ADJUNCT LECTURER

January 2017 – June 2017 | Cypress, CA

- Instructor for the Physics Department. Courses taught: Elementary Physics lecture and lab.

PHYSICS DEPT. OF CAL STATE FULLERTON | RESEARCH ASSISTANT

June 2015 - May 2016 | Fullerton, CA

- Under the supervision of Dr. Ionel Tifrea, utilizing Mathematica for modeling fractional statistics of ideal quantum gases.

PHYSICS DEPT. OF CAL STATE FULLERTON | TEACHING ASSISTANT

September 2014 - May 2015 | Fullerton, CA

- Instructing physics labs with non-physics science and engineering undergraduates. Training incoming graduate teaching assistants.