Teaching Experience

Andrew S. Voyles

June 6, 2023

University of California, Berkeley Berkeley, California

Assistant Research Engineer

- Nuclear Data Summer School 2022 **01–12 August 2022**

  Lecturer for 3 days of the 2022 NSSC Nuclear Data Summer School, teaching 25 graduate student attendees about nuclear medicine, isotope production, predictive codes for nuclear reaction calculations, gamma spectroscopy, data analysis, and scientific writing. Led a lab practical for attendees at the UC Davis Crocker Cyclotron, for a stacked-foil measurement of the production cross sections for ^{177,180m}Ta, a pair of emerging Auger emitters for therapeutic applications. Responsible for designing and carrying out the lab practical, lectures, analysis of the collected data, and manuscript preparation, culminating in a peer-reviewed publication *(currently in preparation)*. This module was by far the highest-rated of the summer school.

Graduate Student Instructor

- NE 101 / 210M — Nuclear Reactions and Radiation **Fall 2015**

  Wrote and graded homework sets for class of 41 undergraduate and graduate students, and led weekly discussion sections for entire class on supplementary material and applications of course material. Mentored students through semester in their coursework, and helped doctoral-track graduate students prepare for their departmental screening exams in this topic.

University of Utah Salt Lake City, Utah

National Science Foundation Outreach Mentor **May, 2010 – May, 2013**

- Created and presented hands-on demos to local schools, to advocate engineering and science careers, focusing on historically underrepresented demographics.

Teaching Assistant

- CH EN 2300 — Thermodynamics I **Spring 2013**
- NUCL 3000 / 5030 — Nuclear Principles in Engineering **Fall 2011**

  Designed semester-long computational simulation projects using GEANT4 for class of 63 undergraduate and graduate students, after teaching GEANT4 programming to class. Mentored students through semester in developing their projects, as well as coursework.