

JASON CLIFFORD

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OBJECTIVE: Aspiring to leverage my research experience, strong academic performance, and diverse interdisciplinary skillset to contribute to innovative projects in scientific machine-learning and nuclear engineering.

EDUCATION

North Carolina State University, Raleigh, NC
B.S. Nuclear Engineering; Major GPA: 3.889

Fall 2021 - Spring 2025

RELEVANT COURSES: Advanced Topics in NE: Scientific Machine Learning; Intro to Computing: MATLAB; Fundamentals of Nuclear Engr; Engr. Dynamics; Applied Differential Equations 2; Intro to Linear Algebra

PROJECT EXPERIENCE

Nuclear Engineering Undergraduate Research

Fall 2022-Present

- Part of Dr. Xu Wu's Artificial Intelligence for Simulation of Advanced Nuclear Systems (ARTISANS) research team
- Focusing on machine-learning applications to data analysis and uncertainty quantification in nuclear systems
- Spent last year developing my AI/ML and general research skills with the mentorship of older members of the group

NC State Honors Program Critical Thinking Fellow

Fall 2023-Present

- Selected to work with distinguished philosophy professor Dr. Gary Comstock on this new Honors program initiative
- Conducting pedagogical research aimed at increasing the critical-thinking capabilities of NCSU students
- Building community on campus by serving as a mentor to first-year students

Intro to Engineering and Problem Solving: First Year Engineering Design Day

Spring 2022

- Collaborated with a team on the Nuclear Probe Design Project to construct a device capable of measuring Cerenkov radiation in NCSU's PULSTAR reactor
- Gained hands-on experience with the test reactor, as well as with basic circuitry, CAD, and MATLAB

WORK EXPERIENCE

Science Undergraduate Laboratory Intern at Idaho National Lab (SULD)

Summer 2023 - Present

- Interning as a research engineer for the National Charging Experience (ChargeX) Consortium
- Built an automated web-scraping tool which can collect and categorize publicly-available electric-vehicle (EV) customer experience data from online sources, thus bypassing the need for costly API access
- Developing a machine-learning model which can analyze and derive insights from said data in order to publish a technical report illustrating the challenges EV users face in the United States

Ringle Tutor

Summer 2022 - Fall 2022

- Led one-on-one English lessons with a diverse group of South Korean nationals to develop their verbal and written communication skills
- Received overwhelmingly positive feedback from students

ACTIVITIES & HONORS

- U.S. Department of Energy University Nuclear Leadership Program (UNLP) Scholar
- National Academy of Engineering Grand Challenge Scholar
- American Nuclear Society, *Member*
- University Honors Program, *Member*
- Technician, NCSU's Student-Run Newspaper, *Correspondent*
- NCSU Dean's List

2023
Spring 2023 - Present
Spring 2022 - Present
Fall 2021 - Present
Fall 2023 - Present
Fall 2021 - Spring 2023

SKILLS

MATLAB * Python * Machine-Learning * Scientific Computing* Microsoft Office * Selenium * Research Experience