Connor Hainje

chainje@princeton.edu
cmhainje.github.io

Third-year physics student with extensive background in technical writing and programming for software and scientific applications, with significant coursework in physics, mathematics, and computer science. Seeking research opportunities in physics with computational components.

Education

Princeton University *Princeton, NJ, USA*

Sept 2017 – present

- Major in physics; significant study in mathematics, computer science, and French
- Dean's recognition of academic excellence for 2018-19 academic year
- GPA: 3.77
- Expected graduation: 2021

Jefferson High School *Lafayette, IN, USA*

Aug 2013 – June 2017

- Valedictorian of Class of 2017
- Unweighted GPA: 4.00

Research Experience

SULI DOE and Technical Intern at *Pacific Northwest National Laboratory*

June 2019 – Sept 2019

- Worked as a member of the Belle II experiment under Jan Strube
- Optimized and parallelized computation and analysis Python scripts
- Developed computational framework for novel, data-driven likelihood model for particle identification in the TOP detector

Research Assistant at *Purdue University Metastable Fluids Research Laboratory*

May 2015 – May 2017

- Wrote MCNP input decks and analyzed MCNP simulation output
- Designed and constructed a constant-temperature chamber
- Programmed an Arduino microcontroller for temperature regulation
- Performed precise scientific experimentation
- Wrote computational analysis scripts to test new model against MCNP output and experimental data

Work Experience

Student Supervisor at *Princeton University Video Services*

June 2019 – present

- Trained new hires
- Managed shift scheduling for each semester
- Assisted patrons with reserving films and using video equipment

COS 226 Grader at *Princeton University Department of Computer Science*

Jan 2019 – present

- Graded the programming assignments of students in COS 226, a course on data structures and algorithms
- Checked the grading of other graders to ensure consistent rubric enforcement

Skills

- Programming languages
  - Python (3 years), Java (2 years), C (1 year)
- Technical writing with LaTeX (3 years)
- Basic front-end web development (HTML/CSS/Bootstrap)
- French (working proficiency)