Brandon Henke

Curriculum Vitae

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Education

Academic Qualifications

2020 BSc. Physics, University of Minnesota - Twin Cities, Minneapolis, MN

2020 BSc. Mathematics, University of Minnesota - Twin Cities, Minneapolis, MN

Employment History

July Graduate Assistant, Michigan State University, East Lansing, MI

2020-Present As a part of the acceptance into graduate school, I was hired to be either a teaching assistant or a research assistant. A breakdown of my assignment each semester is as follows:

- Summer 2020 Research Assistant under Dr. Huey-Wen Lin studying Lattice QCD.
- Fall 2020 Teaching Assistant for PHY251.
- Spring 2021 Teaching Assistant for PHY252.
- Summer 2021 Teaching Assistant for PHY251 and PHY252.
- Fall 2021 Research Assistant under Dr. Huey-Wen Lin studying Lattice QCD.
- Spring 2022 Research Assistant under Dr. Huey-Wen Lin studying Lattice QCD.
- Summer 2022 Research Assistant under Dr. Huey-Wen Lin studying Lattice QCD.
- Fall 2022 Teaching Assistant for PHY251.
- Spring 2023 Teaching Assistant (course unknown at this time).

June **Technical Aide**, 3M, Maplewood, MN

2017-May I was a lab assistant, responsible for making and testing samples for the different projects that were worked on. 2020

September Teaching Assistant, University of Minnesota - Twin Cities

2018-December I was a teaching assistant for introductory physics courses. I was responsible for running a lab and problem session. Grading, 2019 holding office hours, tutoring, and proctoring exams were all part of the duties outside of instructing the lab and problem sessions.

September Teaching Assistant, University of Minnesota - Duluth

2016–May I was a teaching assistant for introductory physics and math courses. I was responsible for assisting students during problem 2017 sessions, grading, and tutoring.

Technical and Personal skills

Programming Languages: Proficient in: C++, Python, Matlab, Java, TeX

Industry Software Skills: Matlab (Advanced), Mathematica (Advanced), MS/Google Office Products (Advanced)

Tutoring: I am a nationally certified tutor in introductory physics and math courses.

Interests and extra-curricular activity

General Programming: I like to program other projects, some of which can be found on my github. Most of these center around physics and math applications.

Video Game Modding: With the help of a friend, I've created a mod for minecraft that generates a maze using a loop-erased random walk algorithm.

Other: I like to learn foreign languages and linguistics. I am not at a speaking level for any language besides English, but I've learned some basics of French, Italian, Latin, Spanish, Greek (very basic), and Japanese (rusty).

Publications

[1] Giovanni Pederiva, Alexei Bazavov, Brandon Henke, Leon Hostetler, Dean Lee, Huey-Wen Lin, and Andrea Shindler. Quantum state preparation for the schwinger model, 2021.