Harrison (“Harry”) LaBollita

Data Scientist

Professional Summary

Research scientist with 4+ years of experience using and developing computational methods applied to condensed matter physics research questions. Proficient in mathematical modeling, data analysis, and resourceful problem solving. Capable of efficiently designing, developing, and deploying software and/or computational/data-driven tools for a variety of applications.

Selected Experience

Research Scientist
Arizona State University | Aug. 2019 – Present

- Designed, performed, and published scientific research papers in the field of computational condensed matter physics.
- Built and contributed to open-source computational and data analytic software tools.
- Excellent teamwork and collaboration skills demonstrated by simultaneously working on several projects with external research groups.
- Experience in technical communication evidenced by several conference presentations and courses taught at the high-school and undergraduate levels.

Pre-Doctoral Researcher
Flatiron Institute (CCQ) | Sept. 2022 – Dec. 2023

- Designed and implemented several software contributions to open-source scientific software developed at the Center for Computational Quantum Physics (CCQ).
- Collaborated with several research scientist to build software that met computational, mathematical, and physical requirements.

Selected Highlights

- Authored **9** peer-reviewed articles on potential high-temperature superconductors.
- Organizer of monthly seminar for physics graduate students at ASU.
- Mentor to advanced high-school students in computational physics.
- Professional tutor for mathematics, physics, and Python programming.

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Education

Ph.D. Physics Expected 2023
Arizona State University

B.S. Applied Math & Physics 2019
Piedmont College

Skills

programming (Python, C++, Julia, Golang)

tools: git, cmake, bash, HPC architectures

data analysis

machine learning (PyTorch)

mathematical modelling

technical communication

software portfolio available here

For more information on research experience, please see my CV.