Athena Caesura

Physics Researcher/Educator

phone: +1 (203) 725 5508

email: mathmeetsmusic@gmail.com

website: mathmeetsmusic.com

OBJECTIVES

As quantum computers are refined and scaled, simulating figures of merit has become a central issue in quantum error correction. Coordinating the many facets of such a simulation is the subject of my continued research.

Educator looking for tutoring work specializing in LGBTQ+ students. With 3 years experience tutoring in a university setting, my supportive teaching methods actively promote my students' comfort, growth, and success.

EXPERTISE

My raw coding experience in Python, Mathematica, Matlab and Java complements my expertise in mathematics, making me an exceptionally versatile, enthusiastic programmer or researcher.

I've focused my young career and education on facilitating an open, encouraging learning environment. My experience in classrooms large and small is practical and seamlessly incorporates technology.

EXPERIENCE

Independent Tutoring (2017 - 2019)

Part-time work tutoring college Math and Physics courses. Recent focus on LGBTQ+ individuals.

Teaching Assistant (Jan. - Mar. 2019)

Worked with group of 30 students running interactive classes. Duties ranged from grading to answering individual questions.

Undergraduate Researcher (2015 - 2016)

I designed a GUI for a multitouch interface in Python as well as interfacing with software using C. Provided on-site tech support work maintaining computers for my colleagues.

Jazz Trumpet (2017 - 2019)

I've made a name for myself in the Waterloo region as one of the premier trumpet players. Whether I'm playing in Waterloo Park or The Jazz Room I'm always at home on stage.

EDUCATION

University of Waterloo (2017-2021)
M.S. Quantum Information with Fundamentals of University Teaching

Implemented advanced numerical linear algebra simulations in Mathematica to characterize quantum error correction. Worked in a small team to publish recent, impactful research.

Case Western Reserve University (2013 - 2017)
B.S. Mathematics and Physics with Computer Science Minor