

# Teaching Statement

My passion for teaching is rooted in the belief that every student can succeed when complex subjects are made clear, relevant, and engaging. I am dedicated to demystifying the worlds of Physics, Mathematics, and Programming, helping students build confidence and develop powerful problem-solving skills. My goal is to create a learning environment where curiosity is sparked, and students from all backgrounds feel empowered to master challenging concepts.

## Teaching Methodology

- **Fostering an Inclusive and Empowering Environment:** I am committed to cultivating a classroom where every student feels empowered to tackle challenging material, ask questions freely, and realize their full potential. My experience with diverse student populations has taught me the value of patience and clear communication. I strive to build a supportive community where students feel secure enough to take intellectual risks and view mistakes as vital learning opportunities.
- **Connecting Abstract Concepts to the Real World:** My approach is grounded in making abstract theory tangible. In Physics and Math, this means connecting principles to students' lived experiences, like using a roller coaster to explain energy conservation. In Computer Science, it means demystifying algorithms and data structures by linking them to the technology students use daily, from search engines to streaming services. This focus on real world application sparks genuine curiosity across all disciplines.
- **Integrating Hands-On Programming and Computational Skills:** My background as a computational physicist and open-source software developer provides a robust foundation for teaching Physics, Mathematics and Computer Science. Beyond simply using computational tools, I am passionate about teaching the core principles of programming, algorithmic thinking, and software design. My experience creating Python packages allows me to design hands-on, project-based learning experiences that equip students with practical and high demand skills.
- **Promoting Active Learning and Dedicated Mentorship:** I believe that learning is fundamentally an active, collaborative process. I design my classes to be interactive, incorporating group problem-solving and lively discussion. My years in the Physics Help Center have reinforced my belief in the profound impact of one-on-one mentorship. I see my role as a dedicated guide, committed to helping students build the confidence and skills essential for their success.

I am enthusiastic about the opportunity to join an academic institution dedicated to excellence in education. I am eager to share my passion for Physics, Mathematics, and Programming with the next generation of thinkers, innovators, and problem solvers.

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