Hien Nguyen

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Education

University of California, Berkeley   August 2017 – May 2024 (Expected)
Bachelor of Arts, Astrophysics and Physics   *Berkeley, CA*
- Courses: Classical Electrodynamics, Quantum Mechanics, Python for Astrophysicists, Multivariable Calculus, Linear Algebra and Differential Equations, Mathematical Methods in Physics

Research Experience

Undergraduate Researcher – PyDecal Final Project   October – November, 2022
University of California, Berkeley   *Berkeley, CA*
- Programmed mathematical model to fit rotation curve of the Milky Way Galaxy
- Simulated a simplified 2D disk galaxy with different rotational velocity parameters to analyze the effect of dark matter

Other Experience

Instructor   January – August, 2022
Mathnasium of Pacific Heights, Novanine Industries LLC   *San Francisco, CA*
- Tutored students in K-8 mathematics using Mathnasium's custom curriculum
- Collaborated with lead instructors and peer instructors in team-teaching: a system where instructors rotate between multiple students while remaining consistent with mathematical methodology and terminology
- Organized and supervised summer camp math and science projects

Research Presentations

PyDecal Final Project Presentation – Appakutty, Sonia Baskaran; Hartanto, Joselin; Nguyen, Hien; Peck, Brianna; Salop, Benjamin

Specialized Skills

Programming: Python (astropy, matplotlib, numerical differentiation and integration, object oriented programming, scipy)
Software: LaTeX, Jupyter Notebook, Google suite, Microsoft Office suite, Adobe Photoshop
Other language(s): Vietnamese (conversational), Mandarin (beginner)

Other Interests

Academic/research interests: black holes, cosmology, dark matter, dark energy, stellar physics, particle physics
Industry interests: aerospace engineering and policy
Recreational interests: movie production, game development, trying new food, history and culture