David S. Kim

dsk265@cornell.edu
617.775.4272
dsykim.github.io

EXPERIENCE

Video Game Development

Cornell University, Ithaca, NY – *Project Lead*

JANUARY 2024 – MAY 2024

Lead team from inception through final release with leading contributions towards code and art.

Laboratory of Particle Physics and Cosmology

Harvard University, Cambridge, MA – *Research Intern*

JUNE 2022 – AUGUST 2022

Developed event reconstructions for neutrino telescopes. Named author on paper and presented findings at conference.

Physics and Math Tutoring

Remote – *Tutor*

SEPTEMBER 2022 – ONGOING

Private-tutored high-school and college students in AP Physics and Calculus.

Summer Science Mentorship Program

Newton, MA – *Co-founder and Teacher*

JUNE 2020 – AUGUST 2020

Co-founded and taught in a summer program to teach middle-schoolers science.

SKILLS

- Python
- Java
- C++
- libGDX

LANGUAGES

- Proficient in Spanish
- Proficient in Korean

AWARDS

- Newton South High School Excellence in Science Award
- 3rd and 5th Place for Astronomy in Mass. State Science Olympiad
- Outstanding Brass Section in Mingus and Essentially Ellington High School Jazz Festivals

EDUCATION

Cornell University

Ithaca, NY – *B.S. in Physics*

ANTICIPATED MAY 2025

Coursework to date includes:

- Game Design (libGDX)
- Machine Learning, Python, Java, C++, Functional Programming (OCaml)
- Multivariable Calculus, Differential Equations, Linear Algebra
- Mechanics & Special Relativity, Electricity & Magnetism, Waves & Thermodynamics, Quantum Mechanics

Harvard University

Cambridge, MA – *Summer Course*

JUNE 2020 – AUGUST 2020

Cosmology and Relativity

PRESENTATIONS & PUBLICATIONS

International Cosmic Ray Conference

Nagoya, Japan

AUGUST 2023

Gave a poster presentation on the neutrino simulation software I helped develop.

Prometheus: An Open-Source Neutrino Telescope Simulation,

Jeffrey Lazar, Stephan Meighen-Berger, Christian Haack, David Kim, Santiago Giner, Carlos A. Argüelles (2023). arXiv:2304.14526 github.com/Harvard-Neutrino/prometheus