

Kevin Seokwoo Hong

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EDUCATION

University of California, Los Angeles

Sep 2021 – Present

Bachelor of Science, Astrophysics | Data Science Engineering Minor, Mathematics Minor

Expected Graduation: June 2025, GPA: 4.00

Relevant Coursework:

- Analytic Mechanics, Electricity & Magnetism, Quantum Mechanics
- Stellar / Galactic / Extragalactic / Computational Astrophysics, Cosmology
- Introduction to Computer Science (C++), Systems and Signals, Machine Learning
- Linear Algebra, Real Analysis, Algorithms, Differential Geometry

HONORS AND AWARDS

Undergraduate Research Scholars Program

Sep 2023 – June 2024

Undergraduate Research Fellows Program

Jan 2023 – June 2023

Rose Hills Foundation Scholarship

Sep 2023 – June 2025

PRESENTATIONS

Brookhaven National Laboratory Summer Internship Program Symposium

Aug 2024

“Projected Density Field Statistics using N-body Simulations”

Undergraduate Research & Creativity Showcase

May 2024

“Keck/KPIC High-Resolution Emission Spectroscopy of Hot Jupiters”

Rubin Observatory Project & Community Workshop

Aug 2023

“LSST Weak Lensing: Impact of the Scalar Spectral Index” (poster)

Undergraduate Research & Creativity Showcase

May 2023

“Assessing the Detectability of Exoplanets using High-Resolution Cross-Correlation Spectroscopy”

PUBLICATIONS

Ferté, A., & **Hong, K.** “Results and forecasts on cosmic inflation from weak lensing.” 2024, Phys. Rev. D, 109, 103502

Hong, K., Finnerty, L., Fitzgerald, M. “Velocity shift and SNR limits for high-resolution spectroscopy of hot Jupiters using Keck/KPIC.” Submitted to AAS (2024).