

KUNLUN WU

116th and Broadway, New York | 2032607333 | kw3037@columbia.edu | <https://kunlun-wu.github.io/>

EDUCATION

Columbia University

MS in Materials Science and Engineering

New York, NY
Ongoing, expected graduation in Dec 2025

Columbia University

BS in Materials Science and Engineering, 3.6/4.0
Dean's List

New York, NY
May 2024

Colgate University

BA in Physics and Japanese, 3.8/4.0
Dean's Award with Distinction

Hamilton, NY
May 2024

EXPERIENCE

Columbia University: School of Engineering

Nanoparticle Lab Undergraduate Researcher (PI: Siu-Wai Chan)

New York, NY
Aug 2023 - May 2024

- Low temperature conductivity of copper-doped nanoceria
 - Area: Materials Science, Ceramics, Nanoparticles
 - Led a small team of 4 students
 - Co-precipitated 6 groups of copper-doped nanoceria with various concentrations
 - Characterized conductivity through impedance spectroscopy (EIS) measurements at 6 temperatures
- Refractive index modification on flexible and transparent thin films using nanoceria
 - Area: Materials Science, Photonics, Thin Films
 - Collaborated with Professor Nanfang Yu's optics lab
 - Produced 6 groups of SU8+thinner precursors with various concentrations of ~10 and 35 nm nanoparticles
 - Conducted dynamic light scattering (DLS) measurements
 - Analyzed 36 sets of ellipsometry measurements from spin coated films on Si substrate

Optics Lab Researcher (PI: Nanfang Yu)

Aug 2024 - Present

- Machine learning model on refractive index enhancement SU8 thin films using metal salts
 - Area: Materials Science, Photonics, Thin Films, Machine Learning
 - Ongoing

Oriental Fortune Capital: Shanghai Branch

Assistant Investment Manager (Intern)

Shanghai, CN
Jun 2023 - Aug 2023

- Produced market research on Chinese domestic in-vehicle MCU industry from 2022 to 2023
- Developed an investment analysis on 9 companies of interest with constructed an evaluation method spanning across 5 key areas

HONORARY SOCIETIES

Materials Research Society: CU Student Chapter

Vice President
President

New York, NY
Aug 2023 – Dec 2023
Jan 2024 - Present

Materials Advantage: CU Student Chapter

Vice President
President

New York, NY
Aug 2023 - Dec 2023
Jan 2024 - Present

SKILLS

- Chinese (Native)
- Japanese (Proficient)