

# James Ho

Please give me graduate Admissions

## Education

Honors B.S Chemical Engineering  
*Oregon State University*

June 2023

- Areas of Specialization: Bioengineering and Material Science
- Areas of Interest: Nanomaterials and Heterogeneous Catalysis

## Research Experience

### Subramanian Research Group

February 2021-Current

- Utilized traditional solid-state synthesis techniques for various solid solutions
- Performed properties characterization including X-ray Diffraction (XRD), Dielectric, Colorimetry, Optical and Magnetic

### Materials and Discovery Lab

May 2021-Current

- Synthesized novel metal-organic frameworks (MOFs) for various applications
- Performed characterization through use of Powder XRD, Fourier Transform Infrared Spectroscopy, thermogravimetric analysis, BET isotherm and UV/Vis.
- Performed qualitative data for organic solutions including NMR and Circular Dichroism
- Presented research monthly in group meetings

### Electroceramics Research Group

November 2021-Current

- Collaborated with a company overseas in development of new ceramic capacitor in cellphones
- Performed ceramic synthesis and characterization techniques such as XRD and SEM
- Characterized for impedance, low temperature dielectric, and electric field measurements

## Publications and Projects

James Ho, Makenzie T. Nord, Jared P. Stafford, and Kyriakos C. Stylianou

*Active Ruthenium-based Metal-Organic Framework Catalyst for CO<sub>2</sub> Fixation onto Epoxides*  
**Accepted:**

Review Paper for CH615: Special Topics in Inorganic Chemistry:

*Homochiral Metal-Organic Frameworks for Chiral Drug Separations*

## Teaching Experience

- Teaching Assistant for General Chemistry Lecture and Laboratory September 2020-Current
- Learning Assistant
  - MTH 251: differential Calculus September 2020-December 2020
  - CHE 331:Transport Phenomena I September 2022-Current
- Honors College Tutor for General and Organic Chemistry November 2021-Current

## Honors

- Barry Goldwater Scholarship & Excellence in Education Foundation Nomination January 2022
- Dean's List