

NHI HOANG

Email: Nhihoang216@gmail.com | **Phone:** (858) 214-4448 | **Address:** Houston, Texas

EDUCATION

University of Houston, B.S in Chemical Engineering
Minor: Chemistry, Mathematics

8/2021 – 5/2024
GPA: 4.0

EXPERIENCE

Undergraduate Research Assistant – Dr. Grabow Lab
University of Houston, Houston, Texas

1/2022 – Present

- Utilizing Vienna Ab-initio Simulation Package to study the behavior of CO and NO oxidation reactions on heterogeneous catalysis (Cu, PdCu alloy) with density functional theory.
- Performing data processing and data visualization in Excel to calculate the activation energies of CO and NO oxidation reactions.
- Conducting Shell scripts in Linux for automating file creation which reduced data input time by 80% and submitted more than 200 jobs to high performance computers.

Catalyzing eXploration of Chemistry (CXC) Mentor
Center for Integrated Catalysis, remotely

1/2022 - 5/2022

- Mentored a group of 5 high school-aged students from underrepresented communities and assisted them in performing chemistry experiments at home.
- Presented lectures about sustainable plastics to raise students' awareness of environmental issues.
- Conducted weekly meetings to provide students information about chemical engineering major.
- Assisted in the students' poster that won 2nd place in the final presentation competition.

R&D Intern

3/2021 – 6/2021

Vidan Fertilizer Company, Ho Chi Minh City, Vietnam

- Researched the roles of Si elements on common agricultural plants for new product development.
- Conducted daily 2-3 experiments determining the concentration of essential nutrients in products to assure they were qualified.

SKILLS

Programming: Python, MATLAB, Linux, HTML, CSS

Tools: MS Excel, Word, PowerPoint

Languages: English, Vietnamese

AWARDS AND EXTRACURRICULAR ACTIVITIES

Fleischer Scholarship

Cullen College of Engineering Scholarship

Premila Hariprasad Vyas Educational Trust Scholarship

Summer & Provost's Undergraduate Research Scholarship

Worley Foundation Scholarship

Transfer Excellence Scholarship

Member of *Society of Women Engineers*

Volunteer Baker at *Bake A Wish*

Volunteer at *Houston Food Bank*

CERTIFICATIONS

Python for Data Science: Intermediate Course, MATLAB Onramp, Introduction to HTML5