

Xiaoru (Kerry) Chen

EDUCATION BACKGROUND

University of California, Los Angeles 09/2019 – 06/2023
Bachelor of Science: Chemical Engineering | Minor: Film, Television, and Digital Media
Overall GPA: 3.884; Major GPA: 3.900 (Dean's Honors List)

WORK EXPERIENCE

Intern at Storage Data Management Team 06/2022 – 09/2022
Southern California Gas Company, Northridge, California

- Conducted research on gas operation power shut off system, fence line monitoring system, and first responders' map of Aliso Canyon natural gas storage field, and wrote a 10-page paper to provide project backgrounds
- Carried out on-site visits to understand storage facilities such as storage wells, compressors, and dehydrators
- Devised a PI Vision Display to monitor real time weather data at storage field, and formulated a five-page PI Vision training guide on how to create a PI Vision Display

Intern at Analytical Instruments Marketing Team 05/2021 – 08/2021
Mettler-Toledo Instruments Co. Ltd, Shanghai, China

- Designed and conducted pH, ion, and conductivity tests on solutions products sent by customers
- Analyzed over 2000 user geographic distribution and purchased instruments for market research in Excel
- Formulated and translated over 100 pages of whitepapers, user guides, and made videos of product competitors
- Engaged in marketing events and activities, such as offering on-site support and hosting marketing sessions

Intern at Supply Chain Center 07/2020 – 10/2020
Covestro Polymers Co. Ltd, Shanghai, China

- Exported data from SAP and created weekly reports on issued and pending raw materials from the storage
- Managed and calculated costs and charges for storage units in different logistics business in SAP
- Verified tank rental costs and evaluated parameters such as dew points, bubble points, fleet type, capacities, etc.
- Communicated with LSPs (Logistics Service Providers) to collect export and domestic billing reports

RESEARCH EXPERIENCE

Research Assistant on Neural Network Potential on Nitridation of Copper Metal 12/2021 – Present
Philippe Sautet's Lab, UCLA, Los Angeles, CA

- Read papers on high-dimensional neural network potentials to study the etching of copper metal using nitridation activation as part of plasma-thermal atomic etching process
- Ran molecular dynamics calculation for the copper nitrate system iteratively to generate geometries as the training data of the subsequent parametrizations and studied snapshots of the structures
- Plotted neural network training curve for different epoch and analyzed the optimization performance

Research Assistant on Silica Sol-Gel Microbead Encapsulation to Deliver Bacteria 01/2020 – 04/2020
Chong Liu's Lab, UCLA, Los Angeles, CA

- Summarized inoculant carrier types and environmentally friendly silica sol-gel in aqueous route
- Learned to apply plate count techniques to examine viabilities of bacteria in the silica sol-gel

LEADERSHIP EXPERIENCE & EXTRACURRICULARS

Co-president 10/2020 – Present
Global Entrepreneurship Society, UCLA, Los Angeles, CA

- Designed and organized internal club member training sessions and wrote cheese industry research report
- Evaluated club financial costs as treasurer, proposed plans to finance committee, and received over \$1000 funding
- Hosted workshop at Anderson School of Management and interviewed startup founders to share experiences

Project Management Team member 06/2022 – Present
Solar Decathlon, UCLA, Los Angeles, CA

- Signed up for the sustainable housing design competition and studied past sustainable housing project
- Presented in Engineering Activity Fair to hire new members to the project team

SKILLS

Programming: Matlab, Linux Bash, Python
Language: Mandarin, Cantonese
Professional software: OSIsoft PI System, SAP