Angela Wang

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The University of Texas at Austin
Cockrell School of Engineering

EDUCATION

The University of Texas at Austin, Austin, TX   Expected May 2026
Bachelor of Science in Chemical Engineering
Elements in Computing Certificate
Relevant Coursework: Introduction to Computing, Organic Chemistry I

WORK EXPERIENCE

Summer Intern, Schlumberger Technology Corporation   June 2019
- Programmed an oil rig that would be able to detect salt domes and drill for oil in an mock offshore environment
- Served as project manager in a team of three for the duration of project, responsible for managing deadlines and evaluating risks and benefits
- Took classes in Electrical Circuit Design, Software Control, Manufacturing Work Instructions, Project Management, Supply Chain, and Geology
- Presented findings to a panel composed of Sugar Land Senior Management, won 1st place out of 7 other teams

RESEARCH EXPERIENCE

Pharmacology and Chemical Biology Intern, Baylor College of Medicine   November 2021 - Present
- Program a website (drugtarget.org) that can provide information on proteins to streamline the research process from a host of databases including UniProt, ProteinAtlas, Depmap, cBioPortal, OMIM, gnomAD, IMPC, and more
- Studied the role of Proteolysis Targeting Chimeras (PROTACs) in cancer treatment to reduce tumor growth by making protein models in MATLAB

Computer Science Intern, University of Texas at Dallas   April 2022 - August 2022
- Utilized machine learning and deep learning with Neural Networks and Convolutional Neural Networks to analyze cancer data from patients
- Developed algorithms that can be used for medical imaging diagnostics, smart health records, and other healthcare uses
- Researched regression analysis using Linear and Logistic Regression (LR) methods and the classification studies on structured and unstructured datasets using LR methods

Chemistry Intern, Welch Summer Scholar Program, University of Houston   June 2022 - August 2022
- Studied the role of human copper transporter protein 1 and 2 (hCTR1, hCTR2) in copper homeostasis within the body and its relation with the onset of Alzheimer's disease
- Focused on examining the relationship of the two proteins, particularly with the possibility of hCTR2 regulating hCTR1
- Created a plasmid that could express the hctr2 protein with a Halo tag, which could then be used for visualization under fluorescence microscopy
- Utilized laboratory techniques including molecular cloning, cell culture, gel electrophoresis, PCR, and sanger sequencing

SKILLS

- Chemistry: molecular cloning process: enzyme digestion, PCR, Gel purification, PCR clean up, Ligation, Transformation, Colony screening, Plasmid Purification, sequencing, western blotting
- Programming languages: C++, Java, HTML, Python, CSS
- Specialized software experience: MATLAB, Microsoft Office Suite (Excel in particular)
- Languages: Chinese (Fluent)

ACCOMPLISHMENTS

National Center for Women & Information Technology (NCWIT) National Honorable Mention
Cockrell School of Engineering Honors Scholarship
Houston Livestock Show and Rodeo Scholarship
Member, American Institute of Chemical Engineers (AIChE), 2023 - Present
Member, Society of Asian Scientists and Engineers (SASE), 2023 - Present