

Jiazhen Chen

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Education:

UC Irvine Irvine, CA, USA Doctor of Philosophy, Chemical and Biomolecular Engineering	Aug. 2023-Present
Cornell University Ithaca, NY, USA Master of Science, Chemical and Biomolecular Engineering	Aug. 2021-Aug. 2023 GPA: 3.95
East China University of Science and Technology (ECUST) Shanghai, China Bachelor of Engineering, Chemical Engineering	Aug. 2015-Jul. 2019 GPA: 3.64
Technische Hochschule Lübeck (THL) Lübeck, Germany Bachelor of Science, Environmental Engineering	Mar. 2018-Jun. 2019 GPA: 1.5

Research Experience:

Cornell University Graduate Research, Prof. Matthew DeLisa	Jan. 2022-Jul. 2023
<ul style="list-style-type: none">◆ Designed a system in <i>E. Coli</i> coupling the native translation machinery and the heterologous glycosylation system from <i>C. jejuni</i> through artificially engineered protein-protein interactions.◆ Screened heterologous oligosaccharyltransferases for improved glycosylation efficiencies.◆ Improved glycosylation efficiency/protein expression levels through plasmid optimization.	

Technische Hochschule Lübeck Bachelor Thesis, Prof. Dr. Ing. Michael Bischoff Bachelor Thesis: Design, Construction, and Modeling of a Reactor with Near Plug Flow Characteristics	Mar. 2019-Jun. 2019
<ul style="list-style-type: none">◆ Designed and constructed a coiled flow inverter (CFI) for student experiment purposes.◆ Determined the mixing characteristics through tracer experiments.◆ Modeled the reactor using a convection-diffusion model in MATLAB	

Work Experience:

UC Irvine

Aug. 2023-Present

Graduate Research Assistant

Technische Hochschule Lübeck

Nov. 2019-Jul.2020

Teaching/Technical Assistant

- ◆ Provided teaching support for students in the “ECUST-THL” Environmental Engineering study program.
- ◆ Worked on improving a bubble counter for gas flow measurements using artificial neural networks.

Skills:

- ◆ Molecular cloning: Restriction Cloning, Gibson Assembly, Overlap Extension PCR
- ◆ Protein expression in *E. Coli*: Experienced in the design of *E. Coli*-based protein expression systems, with/without post-translational protein modifications.
- ◆ Protein purification skills: Affinity chromatography, HPLC
- ◆ Protein characterization skills: Mass Spectroscopy, Immunoblotting