

Yuting Chen

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EDUCATION

University of Michigan, Ann Arbor

Aug. 2018 – June 2024

PhD in Chemistry and Scientific Computing

- Thesis Advisor: Dominika Zgid
- Thesis Title: Finite Size Effects, Machine Learning DFT Functionals, and Intermolecular Interaction Energies from Self-Consistent GW

University of California, Berkeley

Aug. 2014 – May 2018

Bachelor of Science in Chemistry, Minor in Computer Science

- Research Advisor: Martin Head-Gordon
- Research Project: Optimization of SCF Initial Guesses in Q-Chem

TEACHING EXPERIENCE

Visiting Assistant Professor — Hamilton College, Clinton, NY

Aug. 2024 – Present

Courses taught: Physical Chemistry I & II; General Chemistry; General Chemistry Lab

Curriculum Development:

- Developed flipped classroom materials, including video lectures and collaborative activities, for General Chemistry and Physical Chemistry
- Incorporated educational technologies in General Chemistry and Physical Chemistry lecture
- Developed an embedded peer tutoring program with the Quantitative and Symbolic Reasoning Center and Opportunity Program to support underrepresented students in STEM
- Revised two lab protocols for General Chemistry Lab to improve clarity and learning outcomes
- Updated lab report tutorial material to align with new Microsoft Office tools

Service:

- Advised faculty colleagues on preventing and detecting student usage of generative AI on assignments and examinations
- Mentored two undergraduate students conducting summer research projects
- Engaged in community outreach events focused on STEM education in K-12 students
- Wrote for 38 student recommendation letters for 4 students

Future Faculty Graduate Student Instructor — University of Michigan, Ann Arbor, MI

Aug. 2021 – Dec. 2021

Courses taught: General Chemistry; General Chemistry Lab

Curriculum Development:

- Co-developed flipped-classroom curriculum for General Chemistry in collaboration with Dr. Amy Gottfried
- Designed and implemented instructional materials specifically for the Comprehensive Studies Program, which supports students from underrepresented and underserved backgrounds

Graduate Student Instructor — University of Michigan, Ann Arbor, MI

Aug. 2018 – Dec. 2020

Courses taught: General Chemistry; General Chemistry Lab; Physical Chemistry (non calculus-based); Physical Chemistry (calculus-based); Organic Chemistry Lab

- Led weekly discussion sections and office hours for physical chemistry
- Facilitated in-class discussions and reviews as part of flipped-classroom instruction for physical chemistry
- Led weekly lab sections and proposed curriculum improvements based on student feedback

EDUCATION-RELATED COURSEWORK

Chem 550 - Chemistry Education Research and Practice

Aug. 2022 – Dec. 2022

- Explored evidence-based teaching methods under the guidance of Dr. Ginger Shultz, a chemical education researcher who studies how chemistry is learned and taught