Enze Chen (he/him)

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EDUCATION

University of California, Berkeley (2019–2024, anticipated)
Ph.D. Candidate | Materials Science and Engineering (MSE), co-advised by Mark and Tim | GPA: 4.000

Stanford University (2014–2018)
M.S. | Computational and Mathematical Engineering (CME) | GPA: 3.970
B.S. | Materials Science and Engineering (MSE), with Honors, with Distinction | GPA: 3.965

SKILLS AND AWARDS

- Pedagogical content knowledge in physical science domains with experience in instructional design.
- Experience writing digital textbooks using Jupyter, LaTeX, Inkscape, and other tools. Examples in QM, MI.
- 2020 National Science Foundation Graduate Research Fellowship (NSF GRFP) worth a total of $138,000.
- 2022 UC Berkeley Outstanding Graduate Student Instructor Award.
- Awarded two Curriculum Development Grants worth a total of $1,500.

TEACHING EXPERIENCE

Graduate Student Instructor for MSE 45 and MSE 104 (Berkeley, CA) 08/2021—05/2022

- MSE 45 (Fall 2021): Designed lab lectures and taught labs about introductory MSE concepts. Also held OH and assisted with the overall course ($\sim$ 160 students). *Overall effectiveness*: **4.8/5.0** ($n = 34$).
- MSE 104 (Spring 2022): Designed lab lectures and taught labs about materials characterization. Also held OH and assisted with the overall course ($\sim$ 90 students). *Overall effectiveness*: **4.9/5.0** ($n = 17$).

Research Internship Mentor for LBNL MSD DEI initiative (Berkeley, CA) 06/2021—07/2021

- Designed an original, open-source materials informatics (MI) curriculum using Jupyter Book.
- Mentored **11** undergraduate researchers in using MI techniques for data-driven discovery of high-κ dielectrics.
- *Spotlight presentation* at the 2021 MRS Fall Meeting (BI01.02.01) and *first-author* manuscript in preparation.

Instructional Designer (ID) at Citrine Informatics (Redwood City, CA) 01/2019—07/2019

- Contributed towards open-source MI learning tools using Jupyter notebooks.
- Forthcoming *first-author* Material Matters article in *MRS Bulletin*.
- Designed 2 days of MI curricula and 7 interactive training sessions for industrial customers.
- Created a pedagogical framework to develop an ID team and strengthen group collaboration.

Teaching Assistant for CME 100 and CME 104 math classes (Stanford, CA) 04/2018—12/2018

- Taught lectures on multivariable calculus, linear algebra, and partial differential equations.
- Held over 90 h of OHs, gave 4 lectures, and designed review session material (see GitHub).
- Averaged **4.5/5.0** for "Effectiveness" and **4.2/5.0** for "Amount learned from him" ($n = 109$).

SERVICE

- Mentored three undergraduates in research projects, including a McNair Scholar, and several more in the graduate school application process, including the Graduate Pathways to STEM (GPS) program.
- As the Academic & Industry Liaison in the MSE Graduate Student Council, I led seminar initiatives (e.g., C^3 socials, student-nominated speakers, speaker lunches), compiled Preliminary Exam resources, synthesized curriculum suggestions, and organized industry events (e.g., Exponent info session).
- Reviewed two papers for the ASEE NSF Grantees Poster Session.