EDUCATION

University of California, Berkeley (2019–2024, anticipated)

Ph.D. | Materials Science and Engineering (MSE), advised by Professor Mark Asta | 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 (~ 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 (~ 90 students).

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 six 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 Material Matters commentary 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., C³ socials, student-nominated speakers, speaker lunches), compiled preliminary exam resources, synthesized curriculum suggestions, and organized industry events (Exponent info session).
- Reviewed two papers for the ASEE NSF Grantees Poster Session.