Enze Chen

enze.chen1@gmail.com | (314) 562-1965 | https://enze-chen.github.io

EDUCATION

University of California, Berkeley (2019–2023, anticipated)
Ph.D. | Materials Science and Engineering, advised by Professor Mark Asta | GPA: 4.000

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

SKILLS AND AWARDS

- Machine learning (ML) and scientific computing expertise for physical science problems.
- Working knowledge of Python, MATLAB, and C++. Experience with Linux systems/tools.
- Pedagogical content knowledge in physical science domains with experience in instructional design.
- 2020 NSF Graduate Research Fellowship.

EXPERIENCE

PhD Student advised by Prof. Mark Asta (UC Berkeley, CA) 08/2019—present

- Research: I use atomistic simulations and machine learning to study structural materials.
- Academic & Industry Liaison in MSE Graduate Student Council. Organized seminar-related events, compiled prelims studying resources, and organized industry info sessions.

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

- Contributed towards *open-source* Citrination learning tools using Markdown and Jupyter notebooks.
- Designed 2 days of academic curricula and 7 interactive sessions for industrial customers.
- Created a pedagogical framework to develop an ID team and strengthen group collaboration.

UG Research Assistant advised by Prof. Evan Reed (Stanford, CA) 06/2016—12/2018

- Demonstrated transferability of KMC models for predicting reactions in different chemical systems.
- Gave an oral presentation at 2017 MRS Fall Meeting (TC04.08.08).
- *First-author* publication: Chen, Enze et al. *The Journal of Physical Chemistry A*, **123**, 9 (2019)
- Co-authored book chapter: *Computational Approaches for Chemistry Under Extreme Conditions*.

R&D Intern at Sandia National Laboratories (Albuquerque, NM) 06/2018—09/2018

- Multiscale modeling and data management of KMC simulations for additive manufacturing.
- Profiled the Stitch I/O system integrated with SPPARKS on HPC clusters.
- Co-authored publication: Lofstead et al., to appear in *Proceedings of IPDPS 2020*.

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 weekly office hours and designed review session material (see GitHub).
- Rated 4.5/5 for "Effectiveness" and 4.2/5 for "Amount learned from him."