Enze Chen

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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.
- 2019 NSF Graduate Research Fellowship Program—Honorable Mention.

EXPERIENCE

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 a future ID team and strengthen collaboration.

Research Assistant in Materials Computation and Theory Group (Stanford) 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 a chapter in *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. Publication to appear in *IPDPS 2020*.

Teaching Assistant for CME 100 and CME 104 math classes (Stanford) 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."

Website: https://enze-chen.github.io/
GitHub: https://github.com/enze-chen
Google Scholar: https://goo.gl/rWSSmw