

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

- 2020 [National Science Foundation Graduate Research Fellowship](#).
 - Machine learning (ML) and scientific computing expertise for physical science problems.
 - Very experienced in Python and MATLAB. Working knowledge of C++ and Linux systems/tools.
 - Pedagogical content knowledge in physical science domains with experience in instructional design.
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EXPERIENCE

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

- Research: I use atomistic simulations (density functional theory and molecular dynamics) and machine learning to study interfaces in structural materials.
- Academic & Industry Liaison in MSE Graduate Student Council. Organized seminar-related events, compiled preliminary exam resources, compiled curriculum suggestions, and organized 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 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](#) on HPC clusters.
- Co-authored publication: Lofstead, Jay et al. in [Proceedings of the 34th 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 over 90 hrs of OHs, gave 4 lectures, and designed review session material (see [GitHub](#)).
- Averaged 4.5/5 for “Effectiveness” and 4.2/5 for “Amount learned from him” out of 109 reviews.