

Jonas L. Kaufman

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Education

University of California, Santa Barbara

Ph.D. Materials

Advisor: Prof. Anton Van der Ven

GPA: 4.0

2017 – Present

Harvey Mudd College

B.S. Physics

Graduate with High Distinction

Departmental Honors in Physics and Humanities, Social Sciences, and the Arts

GPA: 3.9

2013 – 2017

Experience

University of California, Santa Barbara

Graduate Student Researcher

Studying materials for “beyond-Li-ion” batteries using first-principles statistical mechanics methods.

Sep. 2017 – Present

Sandia National Laboratories

Harvey Mudd College Physics-Engineering Clinic Project

Finite element modeling of ceramic nanoparticles in composites for capacitor applications

Sep. 2016 – May 2017

UNSW Sydney, Australia

Materials Science Research Assistant

First-principles atomistic modeling of mechanical properties to aid development of compositionally complex metallic alloys

May – Aug. 2015, 2016

Publications

3. **J. L. Kaufman** and A. Van der Ven. [Na_xCoO₂ phase stability and hierarchical orderings in the O₃/P₃ structure family](#). *Physical Review Materials* 3, 015402 (2019).
2. **J. L. Kaufman**, S. H. Tan, K. Lau, A. Shah, R. G. Gambee, C. Gage, L. MacIntosh, A. Dato, P. N. Saeta, R. C. Haskell, and T. C. Monson. [Permittivity effects of particle agglomeration in ferroelectric ceramic-epoxy composites using finite element modeling](#). *AIP Advances* 8, 125020 (2018).
1. **J. L. Kaufman**, G. S. Pomrehn, A. Pribram-Jones, R. Mahjoub, M. Ferry, K. J. Laws, and L. Bassman. [Stacking fault energies of nondilute binary alloys using special quasirandom structures](#). *Physical Review B* 95, 094112 (2017).

Awards

- Department of Energy Computational Science Graduate Fellowship 2017 – Present
- Jon A. Wunderlich Prize for Creative Achievement in Physics, Harvey Mudd College 2017
- Barry M. Goldwater Scholarship 2016 – 2017
- Jude and Eileen Laspa Fellowship in Applied Mechanics, Harvey Mudd College 2015 – 2017
- National Merit Scholarship 2013 – 2017