Jonas L. Kaufman

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Education

University of California, Santa Barbara
Ph.D. Materials — 2017 – Present
Advisor: Prof. Anton Van der Ven
GPA: 4.0

Harvey Mudd College
B.S. Physics — 2013 – 2017
Graduate with High Distinction, Departmental Honors in Physics and Humanities
GPA: 3.9

Experience

University of California, Santa Barbara — Sep. 2017 – Present
Graduate Student Researcher
Studying materials for "beyond-Li-ion" batteries using first-principles statistical mechanics methods

Sandia National Laboratories, Albuquerque — Sep. 2016 – May 2017
Harvey Mudd College Physics-Engineering Clinic Team Member
Finite element modeling of ceramic nanoparticles in composites for capacitor applications

UNSW Sydney, Australia — May – Aug. 2015, 2016
Materials Science Research Assistant
Atomistic modeling of mechanical properties to aid development of multicomponent metallic alloys

Awards

- U.S. 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

Publications

4. M. Y. Toriyama, **J. L. Kaufman**, and Anton Van der Ven. Potassium ordering and structural phase stability in layered K_xCoO_2. *ACS Applied Energy Materials*, in press (2019).

3. **J. L. Kaufman** and A. Van der Ven. Na_xCoO_2 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).