Jonas Kaufman

340 E Foothill Blvd #510, Claremont, CA 91711 • 609.577.6680 • jlkaufman@hmc.edu

EDUCATION

Harvey Mudd College, Claremont, CA
Bachelor of Science, Physics, Expected May 2017
GPA: 3.928

HONORS AND AWARDS

Barry M. Goldwater Scholarship — Mar. 2016
Jude and Eileen Laspa Fellowship in Applied Mechanics — Jan. 2015
Harvey Mudd College Dean's List (5 of 5 semesters) — May 2014 - May 2016
Harvey Mudd College Commendation for Superior Academic Performance — Jan. 2014
National Merit Scholarship Award — Aug. 2013

SKILLS

VASP, Python, Java, C++, Mathematica, MATLAB, COMSOL, Igor Pro, Unix, Microsoft Office

RESEARCH EXPERIENCE

Department of Engineering, Harvey Mudd College — Jan. 2015 - Present
Laspa Fellow in Applied Mechanics
- Developing methods to model mechanical properties of compositionally complex metallic alloys
- Trained three new research students in performing ab initio calculations

School of Materials Science and Engineering, UNSW Australia**,** Sydney, Australia — May - Aug. 2015/16
Materials Science Research Assistant
- Tested various ab initio techniques for calculating stacking fault energy as predictors of ductility in alloys
- Prepared TEM samples and rolled specimens to observe deformation behavior in a novel alloy system

Sandia National Laboratories, Harvey Mudd College — Sep. 2016 - Present
Physics-Engineering Clinic Project
- Measuring permittivity of ceramic nanoparticles in composites for capacitor applications
- Leading finite-element modeling subproject to examine the effect of nanoparticle agglomerates

PUBLICATIONS

Poster/Presenter: J.L. Kaufman, J. Sanz, G.S. Pomrehn, A. Pribram-Jones, K.J. Laws, M. Ferry, R. Mahjoub, L. Bassman, "Generalized stacking fault energies of multicomponent alloys." The Minerals, Metals and Materials Society Spring Meeting (2016).
Publication: J.L. Kaufman, G.S. Pomrehn, A. Pribram-Jones, R. Mahjoub, M. Ferry, K.J. Laws, L. Bassman, "Stacking fault energies of non-dilute binary alloys using special quasirandom structures." Submitted to *Physical Review B* (2016).

CAMPUS INVOLVEMENT

Facilitator, Academic Excellence Program — May 2015 - Present
- Lead weekly tutoring workshops for students in core physics courses

President, Atwood Dorm — Sep. 2015 - May 2016
- Represented 100+ residents as part of student senate and organized bonding events

Grader, Department of Physics — Sep. 2014 - May 2015
- Graded for Mechanics and Special Relativity courses

Tour Guide and Intern, Office of Admissions — Jan. 2014 - May 2015
- Lead weekly tours and assisted with office tasks

Orientation Sponsor, Dean of Students Office — Aug. - Sep. 2014
- Mentored and lead group of eight incoming students and organized orientation activities