

Ariel Rosenfield

822 N Lowell St.
Santa Ana, CA
92703

Phone: +1 (310) 600-9326
Email: rosenfia@uci.edu

Education **University of California, Irvine**
Irvine, California
Ph.D., Mathematics - In progress

University of Oregon
Eugene, Oregon
B.Sc. with Honors, Mathematics and Chemistry, 2018.

Yavapai College
Prescott, Arizona
A.Sc., 2014.

Publications D. Kislitsyn, J. Mills, V. Kocovski, S. Chiu, W. DeBenedetti, C. Gervasi, B. Taber, A. Rosenfield, O. Eriksson, J. Ruzs, A. Goforth, and G. Nazin. (2016) Communication: Visualization and spectroscopy of defects induced by dehydrogenation in individual silicon nanocrystals. *J. Chem. Phys.*, **144** (241102)

B. Taber, D. Kislitsyn, C. Gervasi, J. Mills, A. Rosenfield, L. Zhang, S. Mannsfeld, J. Prell, A. Briseno, and G. Nazin. (2016) Real-space visualization of conformation-independent oligothiophene electronic structure. *J. Chem. Phys.*, **144** (194703)

D. Kislitsyn, V. Kocovski, J. Mills, S. Chiu, C. Gervasi, B. Taber, A. Rosenfield, O. Eriksson, J. Ruzs, A. Goforth, and G. Nazin. (2016) Mapping of defects in individual silicon nanocrystals using real-space spectroscopy. *J. Phys. Chem. Lett.*, **7** (6)

Teaching **Mathematics, UC Irvine**
Directed reading program mentor for algebraic geometry and elementary category theory, Sept 2017 - June 2018

Mathematics, UC Irvine
Graduate teaching assistant for single- and multi-variable calculus, introduction to proofs, introduction to group theory, Sept 2019 - February 2023

Mathematics, University of Oregon
Undergraduate teaching assistant for freshman-level mathematics overview course, Sept 2017 - June 2018

Mathematics, University of Oregon
Paper grader for elementary analysis and lower-division business calculus classes, Sept 2017 - June 2018

Yiddish and Hebrew Languages, Temple Beth Israel, Eugene, Oregon
Designed curricula; taught middle school students Yiddish grammar and vocabulary, Hebrew reading and writing, Sept 2016 - Present

Mathematics and Chemistry, Springfield High School, Springfield, Oregon
Tutored high school students in mathematics and chemistry, Sept 2015 - June 2016

Awards and Honors	<p>UC Irvine Department of Teaching and Inclusive Excellence Summer Fellowship, 2020, 2021, 2022</p> <p>Department of Mathematics, University of Oregon Summer Undergraduate Research Scholarship, 2018</p> <p>Department of Chemistry, University of Oregon Departmental Honors (Awarded for outstanding achievement in undergraduate research), 2018</p>
Service	<p>UC Irvine Directed reading program lead organizer, 2022-2023</p> <p>UC Irvine Association for Women in Mathematics organizing committee member, 2021-2023</p>
Invited Summer Schools	<p>University of Maryland Applied Category Theory Adjoint School, 2023</p>
Languages and Competencies	<p>English (native), Spanish (advanced), Yiddish (advanced), Japanese (basic), Hebrew (reading only), \LaTeX, Python (basic), Adobe Illustrator, Adobe Photoshop</p>