

Gabe I. Schumm

gabes135@berkeley.edu
415-519-9511

2642 College Avenue
Berkeley, CA 94704

EDUCATION

University of California Berkeley
Physics Honors Program | GPA: 3.89

Graduated 2019

TECHNICAL SKILLS

Languages: Python, Scheme, SQL, IDL

Software: Adobe Photoshop, Adobe InDesign, Microsoft Office Suite, CAD

RESEARCH EXPERIENCE

Undergraduate Research Assistant

Summer 2016-Spring 2019

Zettl Group-Condensed Matter Physics at the University of California, Berkeley

- Assist graduate student mentor with procedures, conduct my own experiments to supplement his work, and mentor new undergraduate research assistants.
- Research is centered around Nanodevice construction, and 2D material growth and characterization.

Research Team Member

Fall 2016-Spring 2019

Sports Analytics Group at Berkeley

- Work collaboratively with team, using Physics modeling to investigate and design new methods of classifying Major League Baseball player skill sets.
- Collaborated with UC Berkeley Men's Division I Baseball coaching staff as analytics consultants

Clinical Research Laboratory Assistant

Summer 2015

Immunogenetics/Transplantation Lab at UCSF Medical Center

- Inventoried equipment, cataloged blood and sera samples, and prepared specimens for research purposes.

Medical Research Lab Intern

Summers 2013, 2014

Infection, Injury and Immunity Lab, at UCSF Medical Center

- Assisted with experiments, procedures, and general lab maintenance.

WORK EXPERIENCE

Student Assistant

Spring 2019-Present

Spaces Sciences Laboratory at the University of California, Berkeley

- Perform data analysis for Radiation Belt Storm Probe Mission.

Math Tutor

Fall 2018-Spring 2019

Athletic Study Center at the University of California, Berkeley

- Tutor student athletes as part of an academic support service for members of the NCAA. Hold group and individual tutoring sessions throughout the week.

Math Tutor

Summer 2017 & 2018

Summer Bridge Program at the University of California, Berkeley

- Tutored incoming First Year Students as part of an intensive summer program focused on preparing for the rigor of University-level classes.

Course Tutor and Course Reader

Fall 2017-Spring 2018

Physics Department at the University of California, Berkeley

- Held bi-weekly office hours, lead review sessions for exams, and graded homework for undergraduate Physics courses

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RESEARCH PUBLICATIONS

- Gilbert, S., Pham, T., Dogan, M., Oh, S., Shevitski, B., **Schumm, G.** Liu, S. Ercius, P., Aloni, S., Cohen, M., Zettl, A. (2018), Alternative Stacking Sequences in Hexagonal Boron Nitride. *Nano Letters*, 1810.04814
- Gilbert, S., Liu, S., **Schumm, G.**, & Zettl, A. (2018). Nanopatterning Hexagonal Boron Nitride with Helium Ion Milling: Towards Atomically-Thin, Nanostructured Insulators. *MRS Advances*, 1-5. doi:10.1557/adv.2018.117

AWARD AND SCHOLARSHIPS

- 2018-2019 Isidore Pomerantz Scholarship Award Recipient
- 2018-2019 Berkeley Physics Undergraduate Research Scholar (BPURS)
- 2019 Phi Beta Kappa National Honor Society