

Karen Yu

Stanley Hall
University of California, Berkeley

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EDUCATION

2019-PRESENT **Columbia University**
Ph.D. Physics

2015-2019 **University of California, Berkeley**
B.A. Physics
B.A. Economics

RESEARCH EXPERIENCE

JUN 2019 – **University of California, Berkeley** Berkeley, CA
PRESENT *Segré Intern*
Department of Physics
Project: Nitrogen Vacancy Centers

JAN 2017 – **University of California, Berkeley** Berkeley, CA
PRESENT *Undergraduate Student Researcher*
Department of Chemistry
Project: Kinetic Asymmetry Between Competitive Lipid Kinase and Phosphatase –
Inversion of Reaction Outcomes on Membranes
Advisor: Prof. Jay T. Groves

ACCOLADES

OCT 2018 Outstanding Presentation in Theoretical Chemistry –
 Gulf Coast Undergraduate Research Symposium

OCT 2018 – Berkeley Physics Undergraduate Research Scholar
MAY 2019

PUBLICATIONS

1. William Y. C. Huang, Scott D. Hansen, **Karen Yu**, Albert A. Lee, and Jay T. Groves. "Kinetic asymmetry between competitive lipid kinase and phosphatase drives inversion of reaction outcomes on membranes." in preparation.

CONFERENCES & WORKSHOPS

- JUL 2018 *The Physics of Life Summer School* – Princeton University Center for the Physics of Biological Function, Princeton, NJ
- JAN 2017 *APS Conference for Undergraduate Women in Physics* – UCLA, Los Angeles, CA
- JAN 2016 *APS Conference for Undergraduate Women in Physics* – UCSD, San Diego, CA

PRESENTATIONS

- OCT 2018 "Scale Sensitive Reaction Outcomes from Kinetic Asymmetry Between Competitive Lipid Kinase-Phosphatase on Membranes" –
 Gulf Coast Undergraduate Research Symposium, Rice University, Houston, TX
- APR 2018 "Scale Sensitive Outcomes in a Lipid Kinase-Phosphatase Competitive Reaction" –
 Saegebarth Research Fair, University of California, Berkeley, Berkeley, CA

TEACHING EXPERIENCE

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|-------------|--|--------------|
| SUMMER 2018 | Dept. of Physics
<i>Reader</i>
PHYS 137A – Quantum Mechanics I | Berkeley, CA |
| SPRING 2018 | Dept. of Physics
<i>Reader</i>
PHYS 137A – Quantum Mechanics I | Berkeley, CA |

SKILLS

- PROGRAMMING MatLAB, Python, Java, SQL, LabVIEW