Karen Yu

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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 – PRESENT   **University of California, Berkeley**   Berkeley, CA
Segré Intern
Department of Physics

Project: Nitrogen Vacancy Centers

JAN 2017 – PRESENT   **University of California, Berkeley**   Berkeley, CA
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 – MAY 2019	Berkeley Physics Undergraduate Research Scholar

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

Summer 2018	Dept. of Physics	Berkeley, CA
	Reader	
	PHYS 137A – Quantum Mechanics I	
Spring 2018	Dept. of Physics	Berkeley, CA
	Reader	
	PHYS 137A – Quantum Mechanics I	

Skills

Programming	MatLAB, Python, Java, SQL, LabVIEW