# Jodi Lee

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EDUCATION		
2018 - 2022	B.S. Biochemistry and Molecular Biology	UC Santa Cruz
	Dean's Honors List (2018 - present), GPA 3.99	
	College Scholars Program: 2018 - present	
	Campus Merit Scholar: 2018 - present	
RESEARCH EXPER	UENCE	
Jul 2020 - Present	Undergraduate Research Assistant - King Lab	UC San Diego
	NSF Biomaterials Research Experience for Undergraduates	
	Jacobs School of Engineering	
	Single Cell Analysis of Endothelial Cells Post-Myocardial Infarction	
	• Selected 10 out of 550+ applicants	
	<ul> <li>Oral presentation at 2021 UC San Diego Research Symposium</li> </ul>	
	<ul> <li>Presented Poster in 2021 Biomedical Engineering Society</li> </ul>	
2019 - Present	Undergraduate Research Assistant - Rubin Lab	UC Santa Cruz
	Chemistry and Biochemistry	
	• Performed protein synthesis and purification for x-ray crystallography of	
	oncogenic transcription factor B-Myb DNA nucleosome complex.	
	• Performed Molecular Dynamics to screen small molecules that destabilize	
	Myb-MuvB complex to prevent aberrant cell proliferation.	
2018 - Present	Undergraduate Research Assistant - Jurica Lab	UC Santa Cruz
	Molecular, Cell, and Developmental Biology	
	• Performed computational & statistical analysis and data visualization of	
	coordinated intron retention in aberrant splicing patterns in cancer cells.	
2019 - 2020	Undergraduate Intern - UCSC Genomics Institute Treehouse	UC Santa Cruz
	Childhood Cancer Initiative and Vaske Lab	
	• Performed computational analysis of isoform proportion from pediatric	
	tumour samples and identified whether up-outlier status is commonly	
	driven by non-protein coding isoforms.	
2019	Undergraduate Research Assistant - Sgourakis Lab	UC Santa Cruz
	Chemistry and Biochemistry, University of California Santa Cruz	
	• Shadowed protein synthesis of Major Histocompatibility Complex class 1	
	and peptides to study interactions with chaperone protein TAPBPR.	

Doug Drexler Scholarship Award

UC Santa Cruz

2020	Undergraduate Research in Science and Technology Award	UC Santa Cruz
2018 - 2022	Campus Merit Scholarship	UC Santa Cruz
2018 - 2022	KLA Tencor Urbanek Education Fund	
2019	Top Scorer for Cell and Molecular Biology Course, 280+ students	UC Santa Cruz
2020	Top Scorer for Introduction to Probability Theory, 280+ students	UC Santa Cruz

#### **SKILLS**

### Computer Science

- Experience with R, Python, and Unix
- Wrote algorithms for basic search procedures using guess-propagate-recur paradigm
- Worked with symbolic expression using binary search trees, symbolic differentiation, autogradient, and clones of Pytorch

## Computational Biology

- Experience with UCSC Genome Browser, ACTOR, BIOVIA Discovery Studio Visualizer, Seurat, Galaxy, BLAST, PSI-Blast, Jalview, Xena Browser, PyMol, BedTools, and RNAfold
- Created data visualization for scientific data via Matplotlib (swarm plots, sequence logo, heatmaps, volcano plots, etc.)

#### Mathematics and Statistics

- Applied Bayesian Statistics
- Introductory to Probability Theory
- Linear Algebra
- Discrete Mathematics
- Multivariable Calculus