Jim L. Zhang

Jim L. Linang		
EDUCATION		
Stanford University, School of Medicine	Palo Alto, California	
Ph.D. Candidate – Department of Structural Biology		
Rice University, Wiess School of Natural Sciences		Houston, Texas
B.S. in Biochemistry and Cell Biology – summa cum laude		<i>GPA</i> : 3.99/4.00
Honors: Distinction in Research and Creative Work, President's Honor Roll, Phi Beta Kappa, H	Ionors Thesis	U A. 5.7774.00
M.S. in Biochemistry and Cell Biology		GPA: 4.00/4.00
Thesis: "Structure-function studies of the nematode-infecting Orsay virus"		
RESEARCH		
Feng Laboratory – Stanford School of Medicine, Palo Alto, CA <i>Graduate Student Researcher</i>	Octob	er 2022 – Present
Graduate Stadent Researcher	00100	$c_1 \ z_0 z z = 1$ resent
Rogala Laboratory – Stanford School of Medicine, Palo Alto, CA		
Rotation Student	August 202	2 – October 2022
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Feng Laboratory – Stanford School of Medicine, Palo Alto, CA		
Rotation Student	July 202	22 – August 2022
ADVANCE Summer Institute – Stanford School of Medicine, Palo Alto, CA	1 20	
Research Fellow	June 20.	22 – August 2022
Undergraduate Honors Research in Biochemistry and Cell Biology, Houston, TX		
Thesis: Structural studies of a filamentous double-stranded RNA virus	August	2021 – June 2022
Advisor: Yizhi J. Tao	Tugust	2021 June 2022
14VISOF. 112nt J. 140		
Advanced Biosciences Summer Research Institute, Houston, TX		
Research Fellow and Student Mentor	June 20	20 – August 2021
	June 20.	20 Mugust 2021
National Science Foundation - REU in Multi-Scale Biomolecular Networks, Houston, TX		
Research Fellow in Molecular Virology	June 20	19 - August 2019
B.SM.SPh.D. Candidate in Biochemistry and Cell Biology, Houston, TX		
Thesis: Structure-function studies of the nematode-infecting Orsay virus	March	2019 – June 2022
Advisor: Yizhi J. Tao		
Tao Laboratory – Rice University, Houston, TX		
Researcher	January	2019 – June 2022
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TEACHING		
Department of Biochemistry and Cell Biology at Rice University, Houston, TX		
BIOS 302: Biochemistry II Teaching Assistant	Ianuary	2022 – May 2022
b105 502. Dioenemistry 11 Teaching Assistant	January	2022 - 101ay 2022
Wiess School of Natural Sciences at Rice University, Houston, TX		
Pilot Program for Improving STEM Retention Among Underrepresented Populations	August 2021	- September 2021
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Department of Biochemistry and Cell Biology at Rice University, Houston, TX		
BIOS 301: Biochemistry I Teaching Assistant	August 2020	– December 2021
	1 Iugust 2020	2000000 2021
Department of Biochemistry and Cell Biology at Rice University, Houston, TX		
BIOS 450/550: Viruses and Infectious Diseases Teaching Assistant	Januarv	2021 – May 2021
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Office of Academic Advising at Rice University, Houston, TX		
Academic Fellow in Biochemistry and Cell Biology	March	2020 – May 2022
	11101011	0 1.149 2022
Department of Chemistry at Rice University, Houston, TX		

CHEM 211: Organic Chemistry I Teaching Assistant	June 2019 – August 2019
Breakthrough Collaborative , Houston, TX 9 th Grade Teaching Fellow in Biology; Department Chair of Science	May 2018 – August 2018
Breakthrough Collaborative , Houston, TX 8 th Grade Teaching Assistant in Chemistry and Algebra I	May 2017 – August 2017
EXTRACURRICULARS AND SERVICE	
Structural Biology Graduate Program at Stanford University, Palo Alto, CA Admissions Committee	December 2023 – May 2024
Structural Biology and Biophysics Graduate Programs at Stanford University, Palo Alto, CA Chair - Graduate Student Recruitment	A August 2023 – May 2024
Stanford Biosciences Student Association, Palo Alto, CA NSF-GRFP Peer Mentor	August 2023 – December 2023
Graduate Life Office at Stanford University, Palo Alto, CA Community Associate	May 2023 – Present
Structural Biology and Biophysics Graduate Programs at Stanford University, Palo Alto, CA Social Media Manager	A February 2023 – Present
Department of Structural Biology at Stanford University , Palo Alto, CA Diversity, Equity, and Inclusion Committee Member	September 2022 – Present
Structural Biology and Biophysics Graduate Programs at Stanford University, Palo Alto, CA Recruitment Committee Member	A September 2022 – May 2024
Community College Outreach Program , Palo Alto, CA Science Small Group Mentor	August 2022 – December 2022
Project SHORT , USA Pre-Grad Mentor	July 2022 – Present
Office of Academic Advising at Rice University , Houston, TX <i>Peer Academic Advisor</i>	February 2020 – May 2022
Office of First Year Programs at Rice University , Houston, TX Orientation Week Coordinator – Will Rice College	December 2019 – September 2020
Office of Student Success Initiatives at Rice University , Houston, TX First-Generation and Low-Income Student Ambassador	September 2019 – May 2020
Rice Thresher, Houston, TX News Writer	September 2018 – May 2019
Rice Catalyst , Houston, TX Popular Science Writer and Discoveries Blogger	September 2018 – May 2019
Breakthrough Collaborative, Houston, TX High School Student Mentor	August 2018 – May 2019

PRESENTATIONS AND CONFERENCES

Rice University Shapiro Showcase, Houston, TX	
V I V V	
Selected Speaker – "Visualizing a Virus at Molecular Resolution"	April 2022
Rice IBB Summer Research Symposium, Houston, TX	
Poster - "Virus-like Particles from a Double-stranded RNA Virus with Filamentous Capsid Morphology"	August 2021
Rice Undergraduate Research Symposium, Houston, TX	
	A mmil 2021
Speaker - "Structural and Functional Studies of a Covalently Linked Viral Fiber"	April 2021
Cellular and Molecular Biophysics Conference, Houston, TX	
	December 2020
BioSciences Summer Research Institute Symposium, Houston, TX	
Speaker - "A Preliminary Cryo-EM Model of the Orsay Spike Protein CP- δ "	August 2020
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Rice Undergraduate Research Symposium, Houston, TX	
Poster - "The Structure and Entry Mechanism of the Nematode Virus Orsay"	April 2020
Emerging Trends in Cellular and Molecular Biophysics, Houston, TX	
Poster - "Native-Condition Structural Studies of the Nematode Virus Orsay"	December 2019
Rice REU Research Symposium, Houston, TX	
Poster - "A Purification Scheme Enabling Native-Condition Structural Studies of the Nematode Virus Orsay"	October 2019
Rice IBB Summer Research Symposium, Houston, TX	
Poster - "An Iodixanol-based Density Gradient Isolates Orsay Virions with Substantial Yield and Purity"	July 2019
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PUBLICATIONS

 Guo, YR, Fan, Y, Zhou, Y, Jin, M, Zhang, JL, Jiang, H, Holt, MV, Wang, T, Young, NL, Wang, D, Zhong, W, & Tao, YJ. 2020. Orsay CP-δ adopts a novel β-bracelet structural fold and incorporates into virions as a head fiber. Journal of Virology.

2. **Zhang, JL**^{*}, Pan, J^{*}, Zhou, Y, Fan, Y, Guo, YR, Zhong, W, & Tao, YJ. (*In Preparation*). The structure of a covalently linked pentameric viral fiber revealed by cryo-electron microscopy reconstruction. *Equal contribution.

FELLOWSHIPS AND GRANTS

1. Barry M. Goldwater Foundation. Goldwater Scholar. March 2021 - May 2022, \$7,500.

2. Rice University. George J. Schroepfer Jr. Summer Undergraduate Research Fellowship. May 2021 – August 2021, \$5,000.

3. National Science Foundation. Graduate Research Fellowship Program. April 2022 – December 2027, \$138,000.

HONORS AND AWARDS

Shapiro Prize, Houston, TX	April 2022
George J. Schroepfer Jr. Award for Excellence in Undergraduate Research in Biochemistry, Houston, TX	April 2022
Worden Endowed Award, Houston, TX	April 2022
Rice Excellence in Academic Advising Award, Houston, TX	April 2022
Rice IBB Research Symposium, Houston, TX <i>Outstanding Poster Presentation</i>	August 2021
Rice Undergraduate Research Symposium, Houston, TX <i>Outstanding Oral Presentation</i>	April 2021
James Street Fulton and Edythe King Fulton Endowed Prize, Houston, TX	December 2020
Willis Service Award, Houston, TX	November 2020

BIOC 211 Student Research Presentations, Houston, TX <i>Outstanding Poster Presentation</i>	November 2019
Rice REU Research Symposium, Houston, TX <i>Outstanding Poster Presentation</i>	November 2019
Comcast Leaders and Achievers Scholar, Houston, TX	June 2018
HISD Board of Education Award, Houston, TX Outstanding Student	May 2018