

Jeffrey Chang

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Education	B.S. candidate in Physics, Stanford University Current GPA: 4.02 (in major: 4.08) Lynbrook High School GPA: 4.40, <i>Valedictorian</i>	2020 (expected) 2016
Awards	Stanford Bio-X Best Undergraduate Poster Award US National Science Bowl 2nd place team captain California State Science Fair 2nd place US Physics Olympiad Semifinalist USA Computing Olympiad Platinum Division Jessica Saal Fellowship Award	2018 2016 2016 2016 2015 2015
Career	<i>Textbook Author</i> , with Prof. Steve A. Kivelson and Jack M. Jiang • Writing an undergraduate-level textbook on the statistical mechanics of phase transitions <i>Researcher</i> , Stanford Dept. of Chemistry, Boxer Lab • X-ray crystallography of fluorescent proteins to probe the photochemistry of biological chromophores <i>Scientific Software Engineer</i> , Schrodinger, Inc. • Coded a python GUI for aligning and visualizing proteins and overhauled a critical part of the existing software architecture <i>Science Educator</i> , Springlight Education • Designed curriculum and taught high-school level classes on physics, chemistry, and biology <i>Researcher</i> , Stanford School of Medicine, Khatri Lab • Semi-supervised machine learning of mRNA microarray data to predict autoimmune drug response <i>Researcher</i> , Stanford Dept. of Linguistics, with Prof. Penelope Eckert • Sociolinguistic fieldwork to measure the California Vowel Shift in Bay Area teenagers	2019–Present 2017–2019 2017 2015–2016 2015 2015
Funding	Stanford Undergraduate Research and Advising Small Grant Stanford Bio-X Undergraduate Summer Research Program Stanford Institutes of Medical Research Summer Research Program	2019 2018 2015
Publications	J. Chang, M. G. Romei, S. G. Boxer, “Structural Evidence of Photoisomerization Pathways in Fluorescent Proteins”, <i>Journal of the American Chemical Society</i> , <i>in press</i> . [link]	
Interests	<i>Chamber Music</i> . Financial officer of the Stanford Collaborative Orchestra [link] <i>Music Composition</i> . Horn sonatas, wind quintets, jazz tunes, and more [link] <i>French Horn</i> . Four years principal horn experience, ringer for local orchestras <i>Jazz piano</i> . Active gigging musician with the Casual Business jazz combo <i>French</i> . Fluent speaker with four years of coursework	