${\bf Jeffrey~Chang} \\ {\it jeffjar@stanford.edu-https://stanford.edu/~jeffjar}$

Education	B.S. candidate in Physics, Stanford University Current GPA: 4.02 (in major: 4.08)	2020 (expected)
	Lynbrook High School GPA: 4.40, Valedictorian	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	 Textbook Author, with Prof. Steve A. Kivelson and Jack M. Jiang Writing an undergraduate-level textbook on the statistical mechanics of phase transitions 	2019–Present
	 Researcher, Stanford Dept. of Chemistry, Boxer Lab X-ray crystallography of fluorescent proteins to probe the photochemistry of biological chromophores 	2017–2019
	 Scientific Software Engineer, Schrodinger, Inc. Coded a python GUI for aligning and visualizing proteins and overhauled a critical part of the existing software architecture 	2017
	 Science Educator, Springlight Education Designed curriculum and taught high-school level classes on physics, chemistry, and biology 	2015–2016
	 Researcher, Stanford School of Medicine, Khatri Lab Semi-supervised machine learning of mRNA microarray data to predict autoimmune drug response 	2015
	 Researcher, Stanford Dept. of Linguistics, with Prof. Penelope Eckers Sociolinguistic fieldwork to measure the California Vowel Shift in Bay Area teenagers 	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	"Structural Evidence of Photoisomerization Pathways in Fluorescent Proteins", J. Chang, M. G. Romei, S. G. Boxer, <i>Journal of the American Chemical Society</i> , 141, 15504-15508 (2019). [link]	
Interests	Chamber Music. Financial officer of the Stanford Collaborative Orchestra [link] Music Composition. Horn sonatas, wind quintets, jazz tunes, and more [link] French Horn. Four years principal horn experience, ringer for local orchestras Jazz piano. Active gigging musician with the Casual Business jazz combo French. Fluent speaker with four years of coursework	