

## Carlos Xavier Hernández

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Address:

	Room S296 318 Campus Drive, Stanford, CA 94305	Email: cxh@stanford.edu URL: cxhernandez.com	
Experience	Graduate Fellow in the Biophysics Program with Vijay Pande @ Stanford University	2013 - Present	
	Undergraduate Researcher at the Center for Computational Biology and Bioinform with Raul Rabadan @ Columbia University Medic		
	Undergraduate Fellow at the Department of Chewith James Andrew McCammon @ University of the Common in the Common i		:
	Undergraduate Fellow at the Department of Biochemistry and Molecular Biophysics with Stephen Goff @ Columbia University Medical Center		
Education	Stanford University Biophysics, PhD	Present	
	Columbia University in the City of New York Applied Mathematics, BSc	2013	ı
Skills			
	<ul><li>Python   Java</li><li>HTML   CSS   JavaScript   SQL</li><li>MATLAB   R   UNIX</li></ul>	<ul> <li>Computational Biochemistry</li> <li>Web   Mobile Development</li> <li>Machine Learning   Data Mining</li> </ul>	
Awards	Graduate Research Fellowship National Science Foundation	2013	
	ADVANCE Summer Institute Fellowship Stanford University	2013	
	Exceptional Research Opportunities Program Fell Howard Hughes Medical Institute	lowship 2012	

Summer Undergraduate Research Fellowship

Genentech

2011



Publications	MDTraj: a modern, open library for the analysis of molecular dynamics trajectories McGibbon R.T., Beauchamp K.A. Schwantes C.R., Wang LP., Hernández C.X., Harrigan M.P., Lane T.J., Swails J.M., and Pande V.S. Biophysical Journal. doi: 10.1016/j.bpj.2015.08.015	2015
	Markov State Models Provide Insights into Dynamic Modulation of Protein Function Shukla D., Hernández C.X., Weber J.K., and Pande V.S. Accounts of Chemical Research. doi: 10.1021/ar5002999	2015
	Structure-based Network Analysis of an Evolved G-Protein Coupled Receptor Homodimer Interface Nichols S.*, Hernández C.X.*, Wang, Y. and McCammon J.A. <i>Protein Science</i> . doi: 10.1002/pro.2258	2013
	Understanding the Origins of a Pandemic Virus Hernández C.X., Khiabanian H., Chan J. and Rabadan R. arXiv. arXiv: 1104.4568v1 [q-bio.PE]	2011
Press	Pandemic Flu Risk Raised by Lax Hog-Farm Surveillance Wired Science	2012
	The Origin and Evolution of a Pandemic Virus  MAGNet Newsletter, 4:15-18	2011
Mentorship	Irfan Kherani Global Health and Health Policy Student @ Princeton University Thesis: Cross-Hemispheric Phylogenetic Analysis of 2009 H1N1 Pandemic Influenza	2011
	Ravi Vaidya High School Student Thesis: Distinct Circulation of Influenza Virus in Geographically Diverse U.S. Air Force Installation	<b>2010</b>