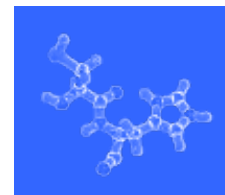


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Experience	Graduate Fellow in the Biophysics Program with Vijay Pande @ Stanford University	2013 - Present
	Undergraduate Researcher at the Center for Computational Biology and Bioinformatics with Raul Rabadan @ Columbia University Medical Center	2010 - 2013
	Undergraduate Fellow at the Department of Chemistry and Biochemistry with James Andrew McCammon @ University of California, San Diego	2012
	Undergraduate Fellow at the Department of Biochemistry and Molecular Biophysics with Stephen Goff @ Columbia University Medical Center	2011
Education	Stanford University Biophysics, PhD	Present
	Columbia University in the City of New York Applied Mathematics, BSc	2013
Skills	<ul style="list-style-type: none">• Python Java• MATLAB R UNIX• HTML CSS JavaScript SQL• Computational Biochemistry• Web Mobile Development• Machine Learning Data Mining	
Awards	Graduate Research Fellowship National Science Foundation	2013
	ADVANCE Summer Institute Fellowship Stanford University	2013
	Exceptional Research Opportunities Program Fellowship Howard Hughes Medical Institute	2012
	Summer Undergraduate Research Fellowship Genentech	2011



Publications

MDTraj: a modern, open library
for the analysis of molecular dynamics trajectories 2015
McGibbon R.T., Beauchamp K.A. Schwantes C.R., Wang L.-P.,
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

Markov State Models Provide Insights
into Dynamic Modulation of Protein Function 2015
Shukla D., Hernández C.X., Weber J.K., and Pande V.S.
Accounts of Chemical Research. doi: 10.1021/ar5002999

Structure-based Network Analysis
of an Evolved G-Protein Coupled Receptor Homodimer Interface 2013
Nichols S.*, Hernández C.X.*, Wang, Y. and McCammon J.A.
Protein Science. doi: 10.1002/pro.2258

Understanding the Origins of a Pandemic Virus 2011
Hernández C.X., Khiabani H., Chan J. and Rabadan R.
arXiv. arXiv: 1104.4568v1 [q-bio.PE]

Press

Pandemic Flu Risk Raised by Lax Hog-Farm Surveillance 2012
Wired Science

The Origin and Evolution of a Pandemic Virus 2011
MAGNet Newsletter, 4:15-18

Mentorship

Irfan Kherani 2011
Global Health and Health Policy Student @ Princeton University
Thesis: Cross-Hemispheric Phylogenetic Analysis of 2009 H1N1 Pandemic Influenza

Ravi Vaidya 2010
High School Student
Thesis: Distinct Circulation of Influenza Virus in Geographically Diverse U.S. Air Force Installations