## **Curriculum Vitae**

## Zhai, Huanchen

Department of Chemistry and Biochemistry, UCLA 11000 Weyburn Drive Apt B356, Los Angeles, California, USA (310) 307 6275 hczhai@ucla.edu

Education	
<b>University of California, Los Angeles, Los Angeles, CA</b> Department of Chemistry and Biochemistry, PhD student Major: Chemistry	Sep. 2015 – Present
<b>Shandong University, Jinan, P. R. China</b> Taishan College, and School of Physics, Bachelor of Science Major: Physics	Sep. 2011 – Jun. 2015
Awards, Honors and Scholarships	
Meritorious Winner (team) in 2014 Interdisciplinary Contest in Modeling (ICM	1), International 2014
Scholarships for CSST Students, University of California at Los Angeles	2014
Honor for Outstanding Student Leaders, Shandong University	2013 - 2014
First-Grade Prize of Shandong Division in the 4 <sup>th</sup> National Undergraduate Math	hematical Contest 2012
Scholarships for Excellent Academic Performance, Shandong University	2012 - 2013
Research Experience	
University of California at Los Angeles, Los Angeles, CA Department of Chemistry and Biochemistry, (Adviser: Dr. Anastassia N. Alex Searching global minimum of PES for clusters using Coalescence Kick (CK) r	Jul. – Sep. 2014 androva) <i>method</i>
<b>Shandong University, Jinan, P. R. China</b> Institute of Atomic and Molecular Physics, School of Physics, (Adviser: Dr. S <i>Theoretical and computational method for atomic and molecular collision dyr</i>	Mar. 2013 – Nov. 2014 Shi-Ying Lin) <i>namics</i>

European Organization for Nuclear Research (CERN), Geneva, Switzerland	Jul. – Aug. 2013
Study and visit as an associated member of ATLAS Experiment	

Shandong University, Jinan, P. R. ChinaMay 2012 – May 2013Laboratory for Ion Beam Applications, School of Physics, (Adviser: Dr. Xuelin Wang)Waveguide structure properties for near-infrared wavelength regions in lithium niobate crystals

**Teaching Experience** 

University of California at Los Angeles, Los Angeles, CAJan. 2016 – PresentDepartment of Chemistry and Biochemistry, (Instructor: Dr. Jennifer Casey, Dr. Bacher)Chemistry Experiments for Life Science Majors, undergraduate-level course, teaching assistant

Presentations

Poster, 12 <sup>th</sup> National Conference of Quantum Chemistry, Taiyuan, P. R. China	Jun. 2014
A fast hybrid method for constructing multidimensional PES from ab initio calculations	
<b>Talk, Peer Seminar of CSST Program, UCLA, Los Angeles, CA</b> An improved Coalescence Kick method for the search for global minima of clusters	Sep. 2014

Skills	
Computational Chemistry:	VASP, MOLPRO, Gaussian, Quantum Expresso, CP2K, Turbomole, JMol, and VMD
Programming:	C, C++, C#, Basic, Java, Python, Flash Actionscript, Fortran, Haskell, Bash Shell Script, MATLab, and Mathematica
WEB Programming:	PHP, Django, ASP, ASP .NET, JSP, Javascript, HTML, CSS, MySQL, Nginx, uWSGI, git, and jQuery

## **Publications**

Huanchen Zhai, and Shi Ying Lin. "A Fast Hybrid Method for Constructing Multidimensional Potential Energy Surfaces From ab initio Calculations: A New Global Analytic PES of NH<sub>2</sub> System", *Chemical Physics*, 2015, **455** (7), pp 57-64.

Huanchen Zhai, Mai-Anh, Ha, and Anastassia N. Alexandrova. "AFFCK: Adaptive Force-Field-Assisted *ab initio* Coalescence Kick Method for Global Minimum Search", *J. Chem. Theory Comput.*, 2015, **11** (5), pp 2385–2393.