## Rongzhong Li

	Departments of Physics and Computer Science Wake Forest University Winston Salem, NC, 27106, USA	Email: rzlib2l@gmail.com ⊠ Portfolio: http://borntoleave.github.io � LinkedIn: http://www.linkedin.com/in/RongzhongLi in	
Education	<ul> <li>Wake Forest University, Winston-Salem, N</li> <li>Master of Science in Computer Science</li> <li>Ph.D. in Physics</li> </ul>	NC, USA Aug 2014 ~ May 2016 Aug 2010 ~ May 2015	
	Kuang Yaming Honors School, Nanjing Un  Bachelor of Science in Physics	niversity, Jiangsu, China Sep 2006 ~ Jun 2010	
RESEARCH EXPERIENCE	Wake Forest University • Research Assistant, Department of Comp Work with <b>Dr. Paúl Pauca</b> on the Boeing ar of sensor data to classify fiber failures using	nd WFU collaborative project to analyze GBs	
	• Research Assistant, Department of Physics Aug 2011 ~ May 2015  Worked in <b>Dr. Samuel Cho</b> 's Computational Biophysics Group and developed codes to setup molecular dynamics simulations, analyze TBs of coordinates, and visualize results.		
	Nanjing University University • Undergraduate Researcher, Department of Physics Worked with <b>Dr. Jian Zhang</b> in <b>the Institute of Biophysics in Nanjir</b> wrote codes to simulate protein and RNA folding.		
Publications	• Li R, Stevens CA, Cho SS. Molecular dynamics simulations of protein-nanoparticle bioconformation. <i>Modeling, Methodologies and Tools for Molecular and Nano-scale Communication</i> Eds. Junichi Suzuki, Tadashi Nakano. Springer Publishing. (in press, book chapter)		
	• Li R. A true random number generator all varying lighting conditions. IEEE Southeas	gorithm from digital camera image noise for t Conference. 2015	
	• Li R, Macnamara LM, Leuchter JD, Alexander RW, Cho SS. MD simulations of tRNA and aminoacyl-tRNA synthetases: dynamics, folding, binding, and allostery. Int. J. Mol. Sci 2015		
	• Li R, Chen R, Chen P, Wen Y, Ke P-C, Cho SS. Computational and experimental characterizations of silver nanoparticle-apolipoprotein biocorona. J. Phys. Chem. B. 2013		
	• Li R, Ge H, Cho SS. Sequence-dependent energy landscapes. J. Phys. Chem. B.	base stacking interactions guide tRNA folding 2013	
Provisional Patents	<ul><li>System for identification of composite fai</li><li>Devices, methods, and programs for true</li></ul>		
Extra- curricular Activities	<ul> <li>Compiled a personal poetry collection of</li> <li>Organized the individual CV review sessi</li> <li>Formed a team of 3 graduates on Virginia</li> <li>Coached as the student mentor for 3 unde</li> <li>Photographer and BBS admin for WFU C</li> </ul>	ons for 9 physics and CS graduates. 2016 Tech Hackathon. 2016 ergraduates's research projects. 2013 ~ 2015	
TEACHING Experience	<ul> <li>Taught Physics 266, Intermediate Laborat</li> <li>Taught Physics 110, Introductory Physics</li> </ul>		
Skills	C++; Mathematica; Matlab; Shell scripts; Ja		

Projects	• Star-trail Photography Simulator Feb 2 An iOS app developed during VTHacks that adds customized star-trails to night photos.	016
	• Traditional Chinese Family Tree Builder Aug 2 A database and visualization for a family tree that consists of 350+ people over 150+ year	
	• Pocket Cube with Hint May 2 A Mathematica program that simulates a pocket cube (2x2x2) game with recovering hints	
	• Nano Fiber Measurer Aug 2 A Mathematica tool package for measuring the dimensions of fibers in microscopy image	
	• HealThy Body An android app providing a lifestyle challenge for diabetic patients.  Oct 2013 ~ Dec 2	013
	• Handmade Metal Irish Whistle Mar 2012 ~ Jun 2 A hobbyist machine shop project that turns brass & alum. pipes into 3 low D Irish whistle	
ACADEMIC AWARDS	<ul> <li>Wake Forest University Graduate School Summer Research Support</li> <li>Wake Forest University Graduate School Alumni Student Travel Award</li> <li>2012 &amp; 2</li> </ul>	015 015
Invited Talks	• IEEE Southeast Conference, Fort Lauderdale, FL. 2 A true random number generator using digital camera noise under varying conditions.	015
	• North Carolina Academy of Science 112th Annual Meeting, Winston Salem, NC. 2 A true random number generator using digital camera noise under varying conditions.	015
	• American Physical Society Meeting, Baltimore, MD.  Ion concentration dependent tRNA folding energy landscapes.	013
	• Center for Molecular Communication and Signaling, Winston-Salem, NC. 2 Molecular conformational signaling networks determine ion concentration dependent tRNA folding mechanisms.	012
Poster Presentations	• WFU Graduate Student and Postdoctoral Research Day, Winston-Salem, NC. 2 3MT talk: A real random number generator algorithm from digital camera image noise under varying lighting conditions.	015
	• WFU Graduate Student and Postdoctoral Research Day, Winston-Salem, NC. 2 3MT talk: GPU optimized simulation for silver nanoparticle bio-corona formation.	014
	• Center for Molecular Communication and Signaling, Winston-Salem, NC. 2 Ion-Concentration dependent MD simulations of tRNA folding shows back tracking even	013 t.
	• WFU Graduate Student and Postdoctoral Research Day, Winston-Salem, NC.  Ion-concentration dependent MD simulations of tRNA folding.	012
	• Gordon Research Conference: Protein Folding Dynamics, Ventura, CA.  Ion-concentration dependent MD simulations of tRNA folding.	012

Last Updated: May 2016