## 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, 1</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	
	<ul><li>Kuang Yaming Honors School, Nanjing Use</li><li>Bachelor of Science in Physics</li></ul>	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 a of sensor data to classify fiber failures usin	nd WFU collaborative project to analyze GBs	
	<del>-</del>	Aug 2011 ~ May 2015 al Biophysics Group and developed codes to lyze 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 Nanjing</b> University		
Publications	• Li R, Stevens CA, Cho SS. Molecular dynamics simulations of protein-nanoparticle bioconformation. <i>Modeling, Methodologies and Tools for Molecular and Nano-scale Communicati</i> Eds. Junichi Suzuki, Tadashi Nakano. Springer Publishing. (in press, book chapter)		
	• Li R. A true random number generator al varying lighting conditions. IEEE Southeast	gorithm from digital camera image noise for st Conference. 2015	
		nder RW, Cho SS. MD simulations of tRNA and lding, binding, and allostery. <b>Int. J. Mol. Sci</b> 2015	
	• Li R, Chen R, Chen P, Wen Y, Ke P-C, Che zations of silver nanoparticle-apolipoprotein	o SS. Computational and experimental characterin 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 und</li> <li>Photographer and BBS admin for WFU C</li> </ul>	ons for 9 physics and CS graduates. 2016 a 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	-	Python; Git; CUDA; JavaScript; Gnuplot; Linux; perry Pi; AutoCAD; 3D printer; Machine shop.	

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