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	
EDUCATION	Wake Forest University, Winston-Salem,	NC USA	
EDUCATION	 Master of Science in Computer Science Ph.D. in Physics 	Aug 2014 ~ May 20 Aug 2010 ~ May 20	
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	Kuang Yaming Honors School, Nanjing UBachelor of Science in Physics	Sep 2006 ~ Jun 20	
Research	Wake Forest University		
Experience	• Research Assistant, Department of Computer Science Jan 2015 ~ May 2016 Work with Dr. Paúl Pauca on the Boeing and WFU collaborative project to analyze GBs of sensor data to classify fiber failures using machined learning algorithms.		
	• Research Assistant, Department of Physics Aug 2011 ~ May 2015 Worked in Dr. Samuel Cho '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 Sep 2009 ~ Jun 2010 Worked with Dr. Jian Zhang in the Institute of Biophysics in Nanjing University and wrote codes to simulate protein and RNA folding. 		
Publications	• Li R, Stevens CA, Cho SS. Molecular dynamics simulations of protein-nanoparticle biocorona formation. <i>Modeling, Methodologies and Tools for Molecular and Nano-scale Communications</i> , Eds. Junichi Suzuki, Tadashi Nakano. Springer Publishing. (in press, book chapter) 2016		
	• Li R. A true random number generator a varying lighting conditions. IEEE Southea	lgorithm from digital camera image noise for st Conference. 20	
	• 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 $$20$$	
Provisional Patents	 System for identification of composite fa Devices, methods, and programs for true 		
Extra-	• Compiled a personal poetry collection of	• '	
CURRICULAR ACTIVITIES	Organized the individual CV review sessFormed a team of 3 graduates on Virgini		
	 Coached as the student mentor for 3 und 		
	Photographer and BBS admin for WFU (1 2	
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TEACHING Experience	 Taught Physics 266, Intermediate Labora Taught Physics 110, Introductory Physic 		
Skills	<u>-</u>	; Python; Git; CUDA; JavaScript; Gnuplot; Maple berry 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	 Wake Forest University Graduate School Summer Research Support Wake Forest University Graduate School Alumni Student Travel Award 2012 & 2 	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