Rongzhong Li

	Departments of Physics and Computer Science Wake Forest University Winston Salem, NC, 27106, USA	Portfolio LinkedIn: <i>http://www.l</i>	Email: rzlib2l@gmail.o : http://borntoleave.githu inkedin.com/in/Rongzhon	com ⊠ 1b.io � 1gLi in	
Employment	Petoi LLC • Founder Invented a robotic cat for STEM education	and AI-enhanced ente	Winston-Salem, NC Jul 2017 ~ Pi rtainment.	, USA resent	
	 Wake Forest University Part-time Assistant Professor, Department Teach computer vision (OpenCV), Introduce designing, 3D printing). 	nt of Computer Science ction to CS (Java) and	Winston-Salem, NC e Sep 2016 ~ Pi STEM labs (Arduino, 1	, USA resent RasPi,	
Education	Wake Forest University • Master of Science in Computer Science • Ph.D. in Physics		Winston-Salem, NC Aug 2014 ~ Aug Aug 2010 ~ May	, USA g 2016 g 2015	
	Kuang Yaming Honors School , Nanjing U • Bachelor of Science in Physics	niversity	Nanjing, Jiangsu, (Sep 2006 ~ Jur	China 1 2010	
Research Experience	 Wake Forest University Research Assistant, Department of Computer Science Jan 2015 ~ Aug 2016 Worked 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 Undergraduate Researcher, Department Worked with Dr. Jian Zhang in the Institution wrote codes to simulate protein and RNA is 	of Physics 1 te of Biophysics in N a folding.	Sep 2009 ~ Jur anjing University and	1 2010	
Publications	• Tat Hong, Wu J, Pike M, Schaefer J, Pauca VP, Li R, Nickerson W. Machine Learning for Acoustic Emission Signatures in Composite Laminates. ASC Technical Conference. 2017				
	• Li W, Lucioni T, Li R, Bonin K, Cho SS, Guthold M. Stretching single fibrin fibers hampers their lysis. Acta Biomaterialia. 2017				
	• 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. (book chapter) 2017				
	• Li R. A true random number generator algorithm from digital camera image noise for varying lighting conditions. IEEE Southeast 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 base stacking interactions guide tRNA folding energy landscapes. J. Phys. Chem. B. 2013				
Patents	 Legged Robots and Methods For Control Method and Apparatus for Acoustic Emi 	ling Legged Robots. (p ssions Testing. (US apj	rovisional) blication)	2018 2016	

Projects	• OpenCat Jul 20 A mini cat-like quadrupedal robotic platform that integrates 10+ sensors and 10 perform versatile tasks, such as gait adjustment, balancing and recovery, obstact face identification, video streaming, voice control and more advanced AI.		
	 Pocket Cube with Hint A Mathematica demonstration that simulates a (2x2x2) pocket cube with recover 		
	• Nano Fiber Measurer A Mathematica tool package for measuring the dimensions of fibers in microso	Aug 2014 nsions of fibers in microscopy images. Mar 2012 ~ Jun 2012 num pipes into 3 low D Irish whistles.	
	• Handmade Metal Irish Whistle Mar 20 A machine shop project that turns raw brass & aluminum pipes into 3 low D In		
Awards	 Third place award at TechStars Triad Startup Weekend Wake Forest University Graduate School Summer Research Support Wake Forest University Graduate School Alumni Student Travel Award 	2017 2015 2012 & 2015	
Teaching	 Wake Forest University Graduate School Alumin Student Travel Award Taught Physics 266, Intermediate Laboratory (30 students/semester), WFU 	2012 & 2013	
Experience	 Coached as the student mentor for 3 undergraduates's research projects. Taught Physics 110, Introductory Physics (20 students/semester), WFU 	$2013 \sim 2015$ $2010 \sim 2015$	
Conferences and Talks	 Consumer Electronics Show (CES), Las Vegas, NV. ASC Technical Conference, West Lafayette, IN. IEEE Southeast Conference, Fort Lauderdale, FL. North Carolina Academy of Science 112th Annual Meeting, Winston Salem, I American Physical Society Meeting, Baltimore, MD. Center for Molecular Communication and Signaling, Winston-Salem, NC. 	2018 2017 2015 NC. 2015 2013 2012	
Extra- curricular Activities	 Compiled a personal poetry collection of 120 poems (a 30k-word book). Led a team of 3 graduates on Virginia Tech Hackathon. Photographer and BBS admin for WFU Chinese Student & Scholars Association. 	2006 ~ 2016 2016 ion. 2013	
Skills	C/C++; Mathematica; Matlab; Python; Java; Shell scripts; Git; CUDA; OpenMP; DEAC Cluster; Lange: C/C++; Mathematica; Matlab; Python; Java; Shell scripts; Git; CUDA; OpenMP; DEAC Cluster; Lange: Linux; RasPi; Arduino; SketchUp; CAD; 3D printing; Photography; Machine shop.		

Last Updated: Jan 2018