

Rongzhong Li

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EDUCATION	Wake Forest University , Winston-Salem, NC, USA <ul style="list-style-type: none">• Master of Science in Computer Science Aug 2014 ~ May 2016• Ph.D. in Physics Aug 2010 ~ May 2015 Kuang Yaming Honors School, Nanjing University , Jiangsu, China <ul style="list-style-type: none">• Bachelor of Science in Physics Sep 2006 ~ Jun 2010
RESEARCH EXPERIENCE	Wake Forest University <ul style="list-style-type: none">• 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.
PUBLICATIONS	First author of 5 peer-reviewed papers including: <ul style="list-style-type: none">• 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 algorithm from digital camera image noise for varying lighting conditions. <i>IEEE Southeast Conference</i>. 2015• Li R, Ge H, Cho SS. Sequence-dependent base stacking interactions guide tRNA folding energy landscapes. <i>J. Phys. Chem. B</i>. 2013
PROVISIONAL PATENTS	<ul style="list-style-type: none">• System for identification of composite failure mechanisms with acoustic emission. 2016• Devices, methods, and programs for true random numbers using digital camera. 2015
PROJECTS	<ul style="list-style-type: none">• Star-trail Photography Simulator (iOS image editing app during VTHacks) Feb 2016• Traditional Chinese Family Tree Builder (database and visualization) Aug 2015• Pocket Cube with Hint (interactive Mathematica game) May 2015• Nano Fiber Measurer (Mathematica tool package for experimentalists) Aug 2014• Handmade Metal Irish Whistle (machine shop project) Mar 2012 ~ Jun 2012
TEACHING EXPERIENCE	<ul style="list-style-type: none">• Taught Physics 266, Intermediate Laboratory (30 students/semester), WFU 2015• Taught Physics 110, Introductory Physics (20 students/semester), WFU 2010 ~ 2015
EXTRA-CURRICULAR ACTIVITIES	<ul style="list-style-type: none">• Compiled a personal poetry collection of 110 poems (a 30k-word book). 2006 ~ 2016• Organized the individual CV review sessions for 9 physics and CS graduates. 2016• Coached as the student mentor for 3 undergraduates's research projects. 2013 ~ 2015• Photographer and BBS admin for WFU Chinese Student & Scholars Association. 2013
ACADEMIC AWARDS	<ul style="list-style-type: none">• Wake Forest University Graduate School Summer Research Support 2015• Wake Forest University Graduate School Alumni Student Travel Award 2012 & 2015
SKILLS	C/C++; Mathematica; Matlab; Shell scripts; Python; Git; CUDA; JavaScript; Gnuplot; Linux; \LaTeX ; SQL; Photography; Photoshop; Raspberry Pi; AutoCAD; 3D printer; Machine shop.

Last Updated: May 2016