

# Rongzhong Li

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EDUCATION	<b>Wake Forest University</b> , Winston-Salem, NC, USA <ul style="list-style-type: none"><li>• Master of Science in Computer Science Aug 2014 ~ May 2016</li><li>• Ph.D. in Physics Aug 2010 ~ May 2015</li></ul> <b>Kuang Yaming Honors School, Nanjing University</b> , Jiangsu, China <ul style="list-style-type: none"><li>• Bachelor of Science in Physics Sep 2006 ~ Jun 2010</li></ul>
RESEARCH EXPERIENCE	<b>Wake Forest University</b> <ul style="list-style-type: none"><li>• Research Assistant, Department of Computer Science Jan 2015 ~ May 2016 Work with <b>Dr. Paúl Pauca</b> on the Boeing and WFU collaborative project to analyze GBs of sensor data to classify fiber failures using machined learning algorithms.</li><li>• Research Assistant, Department of Physics Aug 2011 ~ May 2015 Worked in <b>Dr. Samuel Cho's</b> Computational Biophysics Group and developed codes to setup molecular dynamics simulations, analyze TBs of coordinates, and visualize results.</li></ul>
PUBLICATIONS	First author of 5 peer-reviewed papers including: <ul style="list-style-type: none"><li>• <b>Li R</b>, 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. <b>Springer Publishing</b>. (in press, book chapter) 2016</li><li>• <b>Li R</b>. A true random number generator algorithm from digital camera image noise for varying lighting conditions. <i>IEEE Southeast Conference</i>. 2015</li><li>• <b>Li R</b>, Ge H, Cho SS. Sequence-dependent base stacking interactions guide tRNA folding energy landscapes. <i>J. Phys. Chem. B</i>. 2013</li></ul>
PROVISIONAL PATENTS	<ul style="list-style-type: none"><li>• System for identification of composite failure mechanisms with acoustic emission. 2016</li><li>• Devices, methods, and programs for true random numbers using digital camera. 2015</li></ul>
PROJECTS	<ul style="list-style-type: none"><li>• Star-trail Photography Simulator (iOS image editing app during VTHacks) Feb 2016</li><li>• Traditional Chinese Family Tree Builder (database and visualization) Aug 2015</li><li>• Pocket Cube with Hint (interactive Mathematica game) May 2015</li><li>• Nano Fiber Measurer (Mathematica tool package for experimentalists) Aug 2014</li><li>• Handmade Metal Irish Whistle (machine shop project) Mar 2012 ~ Jun 2012</li></ul>
TEACHING EXPERIENCE	<ul style="list-style-type: none"><li>• Taught Physics 266, Intermediate Laboratory (30 students/semester), WFU 2015</li><li>• Taught Physics 110, Introductory Physics (20 students/semester), WFU 2010 ~ 2015</li></ul>
EXTRA-CURRICULAR ACTIVITIES	<ul style="list-style-type: none"><li>• Compiled a personal poetry collection of 110 poems (a 30k-word book). 2006 ~ 2016</li><li>• Organized the individual CV review sessions for 9 physics and CS graduates. 2016</li><li>• Coached as the student mentor for 3 undergraduates's research projects. 2013 ~ 2015</li><li>• Photographer and BBS admin for WFU Chinese Student &amp; Scholars Association. 2013</li></ul>
ACADEMIC AWARDS	<ul style="list-style-type: none"><li>• Wake Forest University Graduate School Summer Research Support 2015</li><li>• Wake Forest University Graduate School Alumni Student Travel Award 2012 &amp; 2015</li></ul>
SKILLS	C++; Mathematica; Matlab; Shell scripts; JavaScript; Gnuplot; Python; Maple; CUDA; $\text{\LaTeX}$ ; SQL; Git; Photography; Photoshop; AutoCAD; 3D printer; Machine shop.

Last Updated: May 2016