

# Shiwei Weng

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<b>EDUCATION</b>	Ph.D. Student in Computer Science <b>Johns Hopkins University</b> <ul style="list-style-type: none"><li>Advisor: Scott Smith</li></ul> M.S.E in Computer Science <b>Johns Hopkins University</b> B.Eng. in Software Engineering <b>Fudan University</b> <ul style="list-style-type: none"><li>Cumulative GPA: 3.48 / 4.00</li></ul> B.S. in Computer Science <b>University College Dublin</b> <ul style="list-style-type: none"><li>Double Degree of Fudan-UCD program.</li></ul>	Baltimore, MD, USA Aug 2018 – Present  Baltimore, MD, USA Aug 2016 – Dec 2017  Shanghai, China Sep 2008 – Jul 2013  Dublin, Ireland Sep 2009 – Sep 2013
<b>INTERESTS</b>	Functional programming, Symbolic Execution, Program Analysis, Model Checking	
<b>PUBLICATIONS</b>	<b>Higher-order demand-driven symbolic evaluation, ICFP 2020</b> <ul style="list-style-type: none"><li>Together with Zachary Palmer, Theodore Park, and Scott Smith</li><li>A symbolic backwards execution and a test generation algorithm</li><li>Worked on the implementation</li><li>Designed and conducted the artifact evaluation</li></ul>	
<b>RESEARCH PROJECTS</b>	<b>Symbolic Execution and Model Checking in Functional languages</b> <ul style="list-style-type: none"><li>Continuing of the proof-of-concept work in ICFP 2020</li><li>Lead the optimization and new features development</li><li>Lead the model checking approach</li></ul>	
<b>FINISHED PROJECTS</b>	<b>A Survey of Programming Language Package Managers</b> <ul style="list-style-type: none"><li>Wrote a survey report on concepts and practice of program languages package managers</li><li>Master Independent Study, advised by Scott Smith</li></ul>	Sep 2016 – Apr 2017
<b>WORK EXPERIENCE</b>	<b>System Administrator</b> The Programming Languages Laboratory <ul style="list-style-type: none"><li>Maintain lab servers for web, repositories, and other services</li></ul> <b>Startup Interns &amp; Freelance</b> <ul style="list-style-type: none"><li>Web programming for Miaogu Network, Inc. Ohana Global, Inc. Keniu Information, Inc.</li></ul>	Feb 2019 – Present  Jul 2013 – Sep 2015
<b>PROFESSIONAL EXPERIENCE</b>	<b>Research Assistant</b> The Programming Languages Laboratory Johns Hopkins University <b>Head Teaching Assistant</b> Principles of Programming Languages, Spring 18/Spring 19 <ul style="list-style-type: none"><li>Assist with assignments, grading system, exams, piazza and office hours</li></ul> Academic Events <ul style="list-style-type: none"><li>volunteered in SPLASH 2017, SPLASH 2018, ICFP 2020, OCaml 2020</li><li>attended PLISS 2017, PLMW@SPLASH2017</li></ul>	Jun 2017 – Present
<b>SKILLS</b>	Familiar with OCaml Experience in Python, JavaScript, Java, C, C++, Vim, Linux operations	
<b>HONORS &amp; AWARDS</b>	National Scholarship, Ministry of Education of the People's Republic of China Outstanding Student Award, Fudan University 1st Prize, The 13th National Olympiad in Informatics in Provinces(NOIP) China Computer Federation	Nov 2010 Dec 2010 Dec 2007