Shiwei Weng

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EDUCATION	Ph.D. Student in Computer Science	Baltimore, MD, USA
	Johns Hopkins University	Aug 2018 – Present
	• Advisor: Scott Smith	
	M.S.E in Computer Science	Baltimore, MD, USA
	Johns Hopkins University	Aug 2016 – Dec 2017
	B.Eng. in Software Engineering	Shanghai, China
	Fudan University	Sep 2008 – Jul 2013
	• Cumulative GPA: 3.48 / 4.00	
	B.S. in Computer Science	Dublin, Ireland
	University College Dublin	Sep 2009 – Sep 2013
	• Double Degree of Fudan-UCD program.	

INTERESTS Functional programming, Symbolic Execution, Program Analysis, Model Checking

PUBLICATIONS

Higher-order demand-driven symbolic evaluation, ICFP 2020
- Together with Zachary Palmer, Theodore Park, and Scott Smith
- A symbolic backwards execution and a test generation algorithm
- Worked on the implementation
- Designed and conducted the artifact evaluation

RESEARCH PROJECTS

Symbolic Execution and Model Checking in Functional languages
- Continuing of the proof-of-concept work in ICFP 2020
- Lead the optimization and new features development
- Lead the model checking approach

FINISHED PROJECTS

A Survey of Programming Language Package Managers   Sep 2016 – Apr 2017
- Wrote a survey report on concepts and practice of program languages package managers
- Master Independent Study, advised by Scott Smith

WORK EXPERIENCE

System Administrator
The Programming Languages Laboratory   Feb 2019 – Present
- Maintain lab servers for web, repositories, and other services

Startup Interns & Freelance   Jul 2013 – Sep 2015
- Web programming for Miaogu Network, Inc. Ohana Global, Inc. Keniu Information Technology, Inc.

PROFESSIONAL EXPERIENCE

Research Assistant
The Programming Languages Laboratory   Jun 2017 – Present
Johns Hopkins University

Head Teaching Assistant
Principles of Programming Languages, Spring 18/Spring 19
- Assist with assignments, grading system, exams, piazza and office hours

Academic Events
- volunteered in SPLASH 2017, SPLASH 2018, ICFP 2020
- attended PLISS 2017, PLMW@SPLASH2017

SKILLS

Familiar with OCaml
Experience in Python, JavaScript, Java, C, C++, Vim, Linux operations

HONORS & AWARDS

National Scholarship, Ministry of Education of the People's Republic of China	Nov 2010
Outstanding Student Award, Fudan University	Dec 2010
1st Prize, The 13th National Olympiad in Informatics in Provinces(NOIP) China Computer Federation	Dec 2007