Shiwei Weng

wengshiwei@jhu.edu • +1-858-633-3608 • https://cs.jhu.edu/~weng

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 derived 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

WORK EXPERIENCE

Research Intern
Microsoft Research Lab, Redmond Jun 2021 – Aug 2021
- project: Checked C

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 engineer for Miaogu Network, Inc. Ohana Global, Inc. Keniu Information, Inc.

PROFESSIONAL EXPERIENCE

Research Assistant
The Programming Languages Laboratory at JHU Jun 2017 – Present

Teaching Assistant
Principles of Programming Languages, Spring 18(head)/19(head)/20/21
Functional Programming in Software Engineering, Fall 20

ACADEMIC EVENTS

volunteered in SPLASH 2017, SPLASH 2018, ICFP 2020, OCaml 2020
attended PLISS 2017, PLMW@SPLASH 2017

SKILLS

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

HONORS & AWARDS

National Scholarship, Ministry of Education of the People's Republic of China Nov 2010

1st Prize, The 13th National Olympiad in Informatics in Provinces(NOIP) Dec 2007
China Computer Federation