

Liyi Li

Education	University of Illinois at Urbana-Champaign Degree: PHD, Computer Science Graduation Date: Fall 2020	Champaign, IL
	University of Illinois at Urbana-Champaign Degree: Master of Science, Computer Science Graduation Date: Spring 2014	Champaign, IL
	University of Illinois at Urbana-Champaign Degree: Bachelor of Science, Computer Science Graduation Date: Spring 2012	Champaign, IL
	Case Western Reserve University Degree: Bachelor of Science, Computer Science Spring 2009 – Spring 2010	Cleveland, OH
Work Experience	UMD CS Department Victor Basili Postdoc	College Park, MD May 2020 – Present
Award	<ul style="list-style-type: none">• Choose Ohio First Scholarship 2010 spring• The Carolyn J. and John A. Massie '66 Prize 2010• UIUC University Honor 2012 (Bronze Tablet)• 2019 Spring Outstanding Teaching Assistant Award	
Publication and Conference	<ul style="list-style-type: none">• Liyi Li, Elsa L. Gunter, William Mansky. Symbolic Analysis Tools for CSP, ICTAC 2014.• Liyi Li and Elsa L. Gunter, A method to translate order-sorted algebras to many-sorted algebras, WPTE 2017.• Liyi Li and Elsa L. Gunter, IsaK-Static: A Complete Static Semantics of K, FACS 2018• Liyi Li and Elsa L. Gunter, K-LLVM: A Relatively Complete Semantics of LLVM IR, ECOOP 2020• Liyi Li and Elsa L. Gunter, Per-Location Simulation, NFM 2020• Liyi Li and Elsa L. Gunter, A Complete Semantics of K and Its Translation to	

Isabelle, ICTAC 2021

- Kesha Hietala, Robert Rand, Shih-Han Hung, Liyi Li, Michael Hicks, Proving Quantum Programs Correct, ITP 2021
- Kesha Hietala, Liyi Li, Akshaj Gaur, Aaron Green, Robert Rand, Xiaodi Wu, Michael Hicks, Expanding the VOQC Toolkit, PPlanQC 2021
- Liyi Li, Finn Voichick, Kesha Hietala, Yuxiang Peng, Xiaodi Wu, Michael Hicks, Verified Compilation of Quantum Oracles, OOPSLA 2022
- Liyi Li, Yiyun Liu, Deena Postol, Leonidas Lampropoulos, David Van Horn, Michael Hicks, A Formal Model of Checked C, CSF 2022
- Finn Voichick, Liyi Li, Robert Rand, Michael Hicks, Qunity: A Unified Language for Quantum and Classical Computing, POPL 2023
- Yuxiang Peng, Kesha Hietala, Runzhou Tao, Liyi Li, Robert Rand, Michael Hicks, Xiaodi Wu, A Formally Certified End-to-End Implementation of Shor's Factorization Algorithm