
Email:	wjb@williamjbowman.com	
Web:	https://www.williamjbowman.com	
Phone:	+1 812 381 4118	

CITIZENSHIP	USA	
RESEARCH INTERESTS	Secure compilation; compiler verification; dependent types; meta-programming; language semantics and design	
CURRENT POSITION	<ul style="list-style-type: none"> ◇ University of British Columbia (Vancouver, BC, Canada) <i>Jan. 2019 – Present</i> Assistant Professor 	
EDUCATION	<p>Northeastern University, Boston, MA <i>2012 – 2018</i> PhD in Computer Science, <i>Nov. 2018</i> Thesis: <i>Compiling with Dependent Types</i> Advisor: Amal Ahmed Committee: Matthias Felleisen, Greg Morrisett, Stephanie Weirich, Mitchell Wand</p> <p>Indiana University, Bloomington, IN <i>2007 – 2012</i> MS in Computer Science, <i>May 2012</i> BS in Computer Science, <i>May 2011</i></p>	
POSITIONS	<p>Faculty</p> <ul style="list-style-type: none"> ◇ University of British Columbia (Vancouver, BC, Canada) <i>Jan. 2019 – Present</i> Assistant Professor <p>Research Internships</p> <ul style="list-style-type: none"> ◇ INRIA (Paris, France) <i>Oct. – Dec. 2017</i> Supervisor: Cătălin Hrițcu and Amal Ahmed ◇ Cisco Systems (Durham, NC, USA) <i>May – Aug. 2013</i> Supervisor: R. Kent Dybvig ◇ Pervasive Technology Institute, Indiana University (Bloomington, IN, USA) <i>Sept. – Dec. 2010</i> <p>Visiting Positions</p> <ul style="list-style-type: none"> ◇ Institut Henri Poincaré (Paris, France) <i>May – July 2014</i> Trimester on Semantics of Proofs and Certified Mathematics 	
AWARDS	<p>Northeastern University CCIS Outstanding Service Award <i>2017</i> ACM Student Research Competition, Grand Finalist <i>2017</i> POPL Student Research Competition, First Place <i>2017</i> Northeastern University Fellowship <i>2012 – 2016</i></p>	
MANUSCRIPTS (UNPUBLISHED)	<p>Compiling Dependent Types Without Continuations <i>2018</i> William J. Bowman and Amal Ahmed</p> <p>Dependent Types as Macros <i>2018</i> Stephen Chang, Michael Ballantyne, Marcela Poffald, and William J. Bowman,</p>	

PUBLICATIONS (CONFERENCES)	<p>Typed Closure Conversion of the Calculus of Constructions William J. Bowman, and Amal Ahmed <i>ACM SIGPLAN Conference on Programming Language Design and Implementation</i></p> <p>Type-Preserving CPS Translation of Σ and Π Types is Not Not Possible William J. Bowman, Youyou Cong, Nick Rioux, and Amal Ahmed <i>ACM SIGPLAN Symposium on Principles of Programming Languages</i></p> <p>Fully Abstract Compilation via Universal Embedding Max S. New, William J. Bowman, and Amal Ahmed <i>ACM SIGPLAN International Conference on Functional Programming</i></p> <p>Noninterference for Free William J. Bowman, and Amal Ahmed <i>ACM SIGPLAN International Conference on Functional Programming</i></p> <p>Profile Guided Meta-Programming William J. Bowman, Swaha Miller, Vincent St-Amour, and R. Kent Dybvig <i>ACM SIGPLAN Conference on Programming Language Design and Implementation</i></p>	<p><i>PLDI 2018</i></p> <p><i>POPL 2018</i></p> <p><i>ICFP 2017</i></p> <p><i>ICFP 2015</i></p> <p><i>PLDI 2015</i></p>
PUBLICATIONS (WORKSHOPS)	<p>Dependently Typed Assembly for Secure Compilation William J. Bowman <i>Workshop on Principles of Secure Compilation</i></p> <p>Only Control Effects and Dependent Types Youyou Cong, William J. Bowman <i>Workshop on Higher-Order Programming with Effects</i></p> <p>Growing a Proof Assistant William J. Bowman <i>Workshop on Higher-Order Programming with Effects</i></p> <p>Dagger Traced Symmetric Monoidal Categories and Reversible Programming William J. Bowman, Roshan P. James, and Amr Sabry <i>Workshop on Reversible Computation</i></p>	<p><i>PriSC 2018</i></p> <p><i>HOPE 2017</i></p> <p><i>HOPE 2016</i></p> <p><i>RC 2011</i></p>
TEACHING EXPERIENCE	<p>Northeastern University</p> <ul style="list-style-type: none"> ◇ Teaching assistant, <i>Intensive Principles of Programming Languages</i> PhD course on programming language theory ◇ Head teaching assistant, <i>Fundamentals of Computer Science</i> Undergraduate course on programming <p>Indiana University</p> <ul style="list-style-type: none"> ◇ Teaching assistant, <i>Compiler design and construction</i> Undergraduate course on compilers ◇ Teaching assistant, <i>Introduction to Programming I</i> Undergraduate course on programming ◇ Teaching assistant, <i>Data Structures</i> Undergraduate course on data structures 	<p><i>Fall 2015</i></p> <p><i>Fall 2013 – Spring 2014</i></p> <p><i>Spring 2012</i></p> <p><i>Fall 2010 – Fall 2011</i></p> <p><i>Spring 2009</i></p>