

James Bornholt

Contact	Computer Science and Engineering Box 352350 Seattle, WA 98195-2350	bornholt@uw.edu https://homes.cs.washington.edu/~bornholt/
Education	University of Washington <i>PhD, Computer Science and Engineering</i> <ul style="list-style-type: none">• Advisors: Luis Ceze, Dan Grossman, and Emina Torlak• Member of the programming languages and computer architecture groups Australian National University <i>Bachelor of Philosophy with First Class Honours and the University Medal</i> <ul style="list-style-type: none">• Majors in Computer Science and Mathematics• Thesis: <i>Abstractions and Techniques for Programming with Uncertain Data</i>, advised by Steve Blackburn	Seattle, WA, USA September 2014 – present Canberra, Australia January 2010 – December 2013
Experience	University of Washington <i>Graduate Student Researcher</i> Microsoft Research <i>Software Engineer</i> Microsoft Research <i>Research Intern, Research in Software Engineering (RiSE) group</i> Microsoft Research <i>Research Intern, Research in Software Engineering (RiSE) group</i> Google Summer of Code <i>Jikes RVM</i>	Seattle, WA, USA September 2014 – present Canberra, Australia January 2014 – September 2014 Redmond, WA, USA November 2012 – February 2013 Redmond, WA, USA November 2011 – February 2012 Summer 2011
Publications	Conference Papers A. Sampson, J. Bornholt, and L. Ceze. <i>Hardware-Software Co-Design: Not Just a Cliché</i> . In SNAPL 2015, Asilomar, CA, USA, May 2015. J. Bornholt, T. Mytkowicz, and K.S. McKinley. <i>Uncertain(T): A First-Order Type for Uncertain Data</i> . In ASPLOS 2014, Salt Lake City, UT, USA, March 2014. <i>ACM SIGPLAN Research Highlight, November 2014. Selected for IEEE Micro's Top Picks from the Computer Architecture Conferences, 2015.</i> Workshop Papers J. Bornholt, N. Meng, T. Mytkowicz, and K.S. McKinley. <i>Programming the Internet of Uncertain (T)hings</i> . In SCAW 2015, colocated with HPCA 2015, San Francisco, CA, USA, February 2015. J. Bornholt, T. Mytkowicz, and K.S. McKinley. <i>There's Something About Bayes: Effective Probabilistic Programming for the Rest of Us</i> . In APPROX 2014, colocated with PLDI 2014, Edinburgh, UK, June 2014. Posters J. Bornholt. <i>Uncertain(T): A First-Order Type for Uncertain Data</i> . In PLDI 2013, Seattle, WA, USA, July 2013. <i>Winner, PLDI Student Research Competition, 2013. Second Place, ACM Student Research Competition Grand Final, 2014.</i> J. Bornholt, T. Mytkowicz, and K.S. McKinley. <i>The Model Is Not Enough: Understanding Energy Consumption in Mobile Devices</i> . In Hot Chips 24, Cupertino, CA, USA, August 2012.	
Teaching	Tutor , University of Washington <ul style="list-style-type: none">• CSE 341 (Programming Languages)	January 2015 – present
Service	Students Advised <ul style="list-style-type: none">• Emily McAlister, B. Software Eng., ANU, 2014 (co-advised with Steve Blackburn and Kathryn McKinley) Thesis: <i>The Relationship Between Software and Hardware Energy Consumption on Android Mobile Devices</i>	

Committee Membership

- PLDI Artifact Evaluation Committee, 2015

External Reviews

- CAV 2015
- ACM Transactions on Embedded Computing (TECS) 2015
- ASPLOS 2015

Awards

- IEEE Micro Top Picks from the Computer Architecture Conferences, for Uncertain $\langle T \rangle$, 2015
- ACM SIGPLAN Research Highlight, for Uncertain $\langle T \rangle$, 2014
- David Notkin Endowed Graduate Fellowship, University of Washington, 2014–2015
- Second Place, ACM Student Research Competition Grand Finals (undergraduate category), 2014
- ANU University Medal for Computer Science, 2013
- Winner, ACM PLDI Student Research Competition (undergraduate category), 2013
- ANU Erin Brent Computer Science Prize, 2013
- ANU College of Engineering and Computer Science Dean's Prize, 2013
- ANU Boyapati Computer Science and Mathematics Prize, 2010, 2011 and 2012