

JUSTIN POMBRIO
justinpombrio@cs.brown.edu
justinpombrio.net

- Education** **Brown University**, Providence, RI
PhD in Computer Science (Programming Languages) *May 2018*
Masters in Computer Science *May 2014*
Worcester Polytechnic Institute, Worcester, MA *May 2011*
Bachelor of Science in Computer Science
Bachelor of Science in Mathematical Science
- Publications** Resugaring: Lifting Languages through Syntactic Sugar (thesis)
Justin Pombrio. *Brown 2018.*
The Behavior of Gradual Types: A User Study
Preston Tunnell Wilson, Ben Greenman, Justin Pombrio, Shriram Krishnamurthi. *DLS 2018.*
*Inferring Type Rules for Syntactic Sugar
Justin Pombrio, Shriram Krishnamurthi. *PLDI 2018.*
Can We Crowdfund Language Design?
Preston Tunnell Wilson, Justin Pombrio, Shriram Krishnamurthi. *Onward! 2017.*
Teaching Programming Languages by Experimental and Adversarial Thinking
Justin Pombrio, Shriram Krishnamurthi, Kathi Fisler. *SNAPL 2017.*
Inferring Scope through Syntactic Sugar
Justin Pombrio, Shriram Krishnamurthi, Mitchell Wand. *ICFP 2017.*
Slimming Languages by Reducing Sugar: A Case for Semantics-Altering Transformations:
Junsong Li, Justin Pombrio, Joe Gibbs Politz, Shriram Krishnamurthi. *Onward! 2015.*
Hygienic Resugaring of Compositional Desugaring
Justin Pombrio, Shriram Krishnamurthi. *ICFP 2015.*
Resugaring: Lifting Evaluation Sequences through Syntactic Sugar
Justin Pombrio, Shriram Krishnamurthi. *PLDI 2014.*
A Tested Semantics for Getters, Setters, and Eval in JavaScript
Joe Gibbs Politz, Matt Carroll, Benjamin S. Lerner, Justin Pombrio, Shriram Krishnamurthi. *DLS 2012.*
**Distinguished Artifact Award*
- Experience** **CodeMirror-Blocks** *Dec 2018-present*
CodeMirror-Blocks is an educational block editor. It sets itself apart from other block editors by (i) being accessible to the visually impaired, (ii) offering both a block view and a text view of the code, and (iii) being (as much as possible) a drop-in replacement for the CodeMirror text editor.
- Graduate TA for PL Course**, Brown *Fall 2013, 2014, 2015, 2016*
I constructed the programming assignments for the course and automated their grading. These assignments were the majority of the students' coursework; there were no exams. We graded both code and test cases. Automatically grading test cases is an interesting challenge: ask me about it. I also developed a teaching approach for programming languages called Mystery Languages, and won a Presidential Award for Excellence in Teaching from Brown in 2018.
- Kayak**, Concord, MA *June 2011 – June 2012*
Kayak is a travel search engine. My most significant contribution was to redesign the ad management framework used by Kayak's account managers.
- Major Qualifying Project**, WPI *March 2010 – May 2011*
My research project involved verifying cryptographic protocols using geometric logic. (Unpublished.)
- Chitika**, Marlborough, MA *May – Aug 2008*
Chitika is an internet advertising company. Among other things, I automated their click-fraud detection.
- Conference Talks:** PLDI'14, ICFP'15, Onward'15, NEPLS'15, ICFP'17, PLDI'18
- Artifact Evaluation Committee Reviewer:** PLDI'16
- Co-Organizer of** Racket Summer School 2017
- See github.com/justinpombrio