

JUSTIN POMBRIO
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- Research Interests** Programming languages, with an emphasis on syntactic sugar. Teaching.
- Education** **Brown University**, Providence, RI
PhD in Computer Science *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) *Brown 2018*
The Behavior of Gradual Types: A User Study *DLS 2018*
Preston Tunnell Wilson, Ben Greenman, Justin Pombrio, Shriram Krishnamurthi
*Inferring Type Rules for Syntactic Sugar *PLDI 2018*
Justin Pombrio, Shriram Krishnamurthi
Can We Crowdfund Language Design? *Onward! 2017*
Preston Tunnell Wilson, Justin Pombrio, Shriram Krishnamurthi
Teaching Programming Languages by Experimental and Adversarial Thinking *SNAPL 2017*
Justin Pombrio, Shriram Krishnamurthi, Kathi Fisler
Inferring Scope through Syntactic Sugar *ICFP 2017*
Justin Pombrio, Shriram Krishnamurthi, Mitchell Wand
Slimming Languages by Reducing Sugar: A Case for Semantics-Altering Transformations *Onward! 2015*
Junsong Li, Justin Pombrio, Joe Gibbs Politz, Shriram Krishnamurthi
Hygienic Resugaring of Compositional Desugaring *ICFP 2015*
Justin Pombrio, Shriram Krishnamurthi
Resugaring: Lifting Evaluation Sequences through Syntactic Sugar *PLDI 2014*
Justin Pombrio, Shriram Krishnamurthi
A Tested Semantics for Getters, Setters, and Eval in JavaScript *DLS 2012*
Joe Gibbs Politz, Matt Carroll, Benjamin S. Lerner, Justin Pombrio, Shriram Krishnamurthi
**Distinguished Artifact Award*
- Experience** **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