

**JUSTIN POMBRIO**  
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- 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
- Experience**    **Commure** *July 2019-July 2021*  
Commure is a small healthcare software company, bringing better software to doctors. Most significantly, I rewrote their data transformation DSL to increase expressiveness and decrease error-proneness. I also worked on data connectivity (FHIR  $\leftrightarrow$  JSON etc.), a testing framework (generating random templated FHIR data), data visualizations (DataDog and Commure Stencil), and a variety of other things.
- CodeMirror-Blocks** *Dec 2018-April 2019*  
CodeMirror-Blocks is an educational block editor. It sets itself apart from other block editors by (i) being accessible to blind users, (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 (Unpublished.)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](https://github.com/justinpombrio)
- Publications**    Resugaring: Lifting Languages through Syntactic Sugar (thesis)  
Justin Pombrio. Brown 2018.  
Individual papers in PLDI 2014, ICFP 2015, ICFP 2017, and PLDI 2018\*.  
Can We Crowdsource 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*..  
Slimming Languages by Reducing Sugar: A Case for Semantics-Altering Transformations:  
Junsong Li, Justin Pombrio, Joe Gibbs Politz, Shriram Krishnamurthi. *Onward! 2015*.

*\*Distinguished Artifact Award*