## Ben Greenman

Brown University CIT building 115 Waterman St

Providence RI 02912

benjamin.1.greenman@gmail.com 781-924-9989

## RESEARCH INTERESTS \_

• Brown University

Postdoctoral Researcher, CIFellows 2020

*Mentor* Shriram Krishnamurthi

*General interests*: Language design issues regarding proofs, performance, and people. What guarantees do languages offer, how efficiently can they run, and to what extent do they help users meet their goals?

Specific interests: Migratory Typing, Language Interoperability, Type Theory, Formal Methods

Northeastern University	2014 - 2020
Degree Ph.D	_011 _010
Area Programming Languages	
Advisor Matthias Felleisen	
Thesis Deep and Shallow Types	
Cornell University	2013 - 2014
Degree Master of Engineering	
Major Computer Science	
Advisor Ross Tate	
Cornell University	2010 - 2013
Degree Bachelor of Science	
Major Industrial and Labor Relations	
Minor Computer Science	
Hudson Valley Community College	2009 - 2010
General Studies	
Employment	
University of Utah	2023 – ongoing
Assistant Professor	5 0

2021 - 2023

Knightsbridge Park     Consultant, Web Scraping	201
Cornell University     Research Assistant	2012 - 20
• Rentenna Inc. Software Engineering Intern	2012 - 201
TEACHING	
Topics in PL and Systems: Tables and Humans Organizer	20.
• Software Development Teaching Assistant	2018, 20
• Fundamentals I (Computing and Programming) Teaching Assistant	20
<ul> <li>Object-Oriented Design Teaching Assistant</li> </ul>	20
<ul> <li>Functional Programming and Data Structures</li> <li>Teaching Assistant</li> </ul>	2012 – 20
• Rob Durst  —, not a student	2023 – ongoin
<ul><li>Caspar Popova</li><li>–, not a student</li></ul>	2023 – ongoi
• Vivaan Rajesh	
—, Hillcrest High School	2023 – ongoi:
<ul> <li>-, Hillcrest High School</li> <li>Dibri Nsofor Ph.D., University of Utah</li> </ul>	
Dibri Nsofor	2023 – ongoi:
<ul> <li>Dibri Nsofor Ph.D., University of Utah</li> <li>Ashton Wiersdorf</li> </ul>	2023 – ongoi 2022 – ongoi
<ul> <li>Dibri Nsofor Ph.D., University of Utah</li> <li>Ashton Wiersdorf Ph.D., University of Utah</li> <li>Taylor Allred</li> </ul>	2023 – ongoin 2023 – ongoin 2022 – ongoin 2022 – 20 2022 – ongoin

• Kuang-Chen Lu Ph.D., Brown University	2021 - 2022
• Milo Davis B.S., Northeastern University	2017
• Zeina Migeed B.S., Northeastern University	2016 - 2017
Awards	
NSF SHF: Small: Little Tricky Logics     Postdoc	2023 - 2025
CRA/CCC/NSF CI Fellowship	2021 - 2023
• SIGPLAN Student Scholarship to: 50 Years of the ACM A.M. Turing A	ward 2017
Northeastern CCIS Graduate Community Service Award	2016
Cornell CS Teaching Award	2014
Cornell CS Teaching Award	2013
Professional Service	
Co-Chair of Artifact Evaluation Committee & ERC	OOPSLA 2022, 2023
Program Committee	TFP 2023
	HATRA 2022, 2023
	DLS 2022 ICFP 2021
	PLDI 2021
External Review Committee	ESOP 2023, ICFP 2023
Artifact Evaluation Committee     ECO	OP 2017, OOPSLA 2016, 2017
Publications	
Journal	
• Ben Greenman, Christos Dimoulas, and Matthias Felleisen.  Typed—Untyped Interactions: A Comparative Analysis	TOPLAS 2023
• Ben Greenman, Asumu Takikawa, Max S. New, Daniel Feltey, Robert I	Bruce Findler, JFP 2019

Jan Vitek, and Matthias Felleisen.

How to Evaluate the Performance of Gradual Type Systems

## Conference, Symposium, and Hybrid Conference / Journal

Ben Greenman     GTP Benchmarks for Gradual Typing Performance	ACM REP 2023
• Ben Greenman, Sam Saarinen, Tim Nelson, and Shriram Krishnamurthi Little Tricky Logic: Misconceptions in the Understanding of LTL	Programming 7.2, 2023
• Kuang-Chen Lu, Ben Greenman, Carl Meyer, Dino Viehland, Aniket Panse, and Shriram Krishnamurthi Gradual Soundness: Lessons from Static Python	Programming 7.1, 2023
• Siddhartha Prasad, Ben Greenman, Tim Nelson, John Wrenn, and Shriram Krishnamurthi  Making Hay from Wheats: A Classsourcing Method to Identify Misconception	Koli Calling, 2022
Ben Greenman     Deep and Shallow Types for Gradual Languages	PLDI 2022
• Ben Greenman, Lukas Lazarek, Christos Dimoulas, and Matthias Felleisen A Transient Semantics for Typed Racket	Programming 7.2, 2022
• Kuang-Chen Lu, Ben Greenman, and Shriram Krishnamurthi Types for Tables: A Language Design Benchmark	Programming 7.2, 2022
• Lukas Lazarek, Ben Greenman, Matthias Felleisen, and Christos Dimoulas How to Evaluate Blame for Gradual Types	ICFP 2021
• Ben Greenman, Matthias Felleisen, and Christos Dimoulas Complete Monitors for Gradual Types	OOPSLA 2019
• Preston Tunnell Wilson, Ben Greenman, Justin Pombrio, Shriram Krishnan The Behavior of Gradual Types: A User Study	murthi. DLS 2018
• Daniel Feltey, Ben Greenman, Christophe Scholliers, Robert Bruce Findler, and Vincent St. Amour.  Collapsible Contracts: Fixing a Pathology of Gradual Typing	OOPSLA 2018
• Ben Greenman, Matthias Felleisen.  A Spectrum of Type Soundness and Performance	ICFP 2018
• Ben Greenman, Zeina Migeed.  On the Cost of Type-Tag Soundness	PEPM 2018
• Sam Tobin-Hochstadt, Matthias Felleisen, Robert Bruce Findler, Matthew I Ben Greenman, Andrew M. Kent, Vincent St-Amour, T. Stephen Strickland and Asumu Takikawa. <i>Migratory Typing: 10 Years Later</i>	
• Stephen Chang, Ben Greenman, and Alex Knauth.  Type Systems as Macros	POPL 2017

<ul> <li>Asumu Takikawa, Daniel Feltey, Ben Grand Matthias Felleisen.</li> <li>Is Sound Gradual Typing Dead?</li> </ul>	eenman, Max S. New, Jan Vitek,	POPL 2016
Ben Greenman, Fabian Muehlboeck, and Getting F-Bounded Polymorphism into Sh		PLDI 2014
Workshop		
<ul> <li>Asumu Takikawa, Daniel Feltey, Ben Grand Matthias Felleisen.</li> <li>Position Paper: Performance Evaluation for the second s</li></ul>		STOP 2015
Invited Talks		
• TLf@AAAI-SSS'23 Towards LTLf Misconceptions		2023
• VardiFest, NJPLS Little Tricky Logic: Misconceptions in the	Understanding of LTL	2022
• Racket Con Shallow Typed Racket Shallow and Optional Types for Typed Ra	cket	2020, 2022
• Boston University POPV Seminar Complete Monitoring for Gradual Types		2020
• GRACE Workshop Three Approaches to Gradual Typing		2018
Volunteering		
• Bootstrap Professional Development Teaching Assistant		Summer 2021
Housing Chair		SPLASH 2018
• Northeastern CCIS Hiring Committee Student Representative		Spring 2018
• PRL Offsite Organizer		Fall 2019
• Each One Teach One AP Java Tutor		Fall 2015
Student Volunteer	OOPSLA 2019; Turing Celebration 202 PLDI 2016; ICFP 2015, 2018	

• Ithaca Media Arts Teacher, LEGO Mindstorms Camp Summer 2012

• Cornell Math Explorers Module Designer Winter 2011