Ben Greenman

Brown University
CIT building
115 Waterman St
Providence RI 02912
benjamin.l.greenman@gmail.com
781-924-9989

RESEARCH INTERESTS

General interests: Language design issues regarding proofs, performance, and people. What guarantees can a language offer, how efficiently can it run, and to what extent does it help users meet their goals?

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

EDUCATION

- Northeastern University   2014 – 2020

Degree	Ph.D
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

- Brown University   2021 – ongoing
  Postdoctoral Researcher, CIFellows 2020

- Knightsbridge Park   2017
  Consultant, Web Scraping

- Cornell University   2012 – 2014
  Research Assistant

- Rentenna Inc.   2012 − 2014
Software Engineering Intern

Teaching

- Topics in PL and Systems: Tables and Humans   2020
Organizer

- Software Development   2018, 2020
Teaching Assistant

- Fundamentals I (Computing and Programming)   2016
Teaching Assistant

- Object-Oriented Design   2016
Teaching Assistant

- Functional Programming and Data Structures   2012 − 2014
Teaching Assistant

Students Supervised

- Siddhartha Prasad   2022 − ongoing
Ph.D., Brown University

- Qianfan Chen   2021 − 2022
Sc.B. with Honors, Brown University

- Kuang-Chen Lu   2021 − ongoing
Ph.D., Brown University

- Milo Davis   2017
B.S., Northeastern University

- Zeina Migeed   2016 − 2017
B.S., Northeastern University

Awards

- NSF SHF: Small: Little Tricky Logics   2023 − 2025
role: postdoc

- CRA/CCC/NSF CI Fellowship   2021 − 2023

- SIGPLAN Student Scholarship to: 50 Years of the ACM A.M. Turing Award   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   OOPSLA 2023
- Program Committee   HATRA 2022
- Program Committee   DLS 2022
- Co-Chair of Artifact Evaluation Committee   OOPSLA 2022
- Program Committee   ICFP 2021
- Program Committee   PLDI 2021
- Artifact Evaluation Committee   ECOOP 2017
- Artifact Evaluation Committee   OOPSLA 2017
- Artifact Evaluation Committee   OOPSLA 2016

PUBLICATIONS

Journal

- Ben Greenman, Asumu Takikawa, Max S. New, Daniel Feltey, Robert Bruce Findler,   JFP 2019
  Jan Vitek, and Matthias Felleisen.
  How to Evaluate the Performance of Gradual Type Systems

Conference, Symposium, and Hybrid Conference / Journal

- Kuang-Chen Lu, Ben Greenman, Carl Meyer, Dino Viehland, Aniket Panse, and Shriram Krishna-
  murthi   Programming 2023
  Gradual Soundness: Lessons from Static Python

- Ben Greenman   PLDI 2022
  Deep and Shallow Types for Gradual Languages

- Ben Greenman, Lukas Lazarek, Christos Dimoulas, and Matthias Felleisen   Programming 2022
  A Transient Semantics for Typed Racket

- Kuang-Chen Lu, Ben Greenman, and Shriram Krishnamurthi   Programming 2022
  Types for Tables: A Language Design Benchmark

- Lukas Lazarek, Ben Greenman, Matthias Felleisen, and Christos Dimoulas   ICFP 2021
  How to Evaluate Blame for Gradual Types

- Ben Greenman, Matthias Felleisen, and Christos Dimoulas   OOPSLA 2019
  Complete Monitors for Gradual Types

- Preston Tunnell Wilson, Ben Greenman, Justin Pombrio, Shriram Krishnamurthi. *The Behavior of Gradual Types: A User Study* 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 Flatt, Ben Greenman, Andrew M. Kent, Vincent St-Amour, T. Stephen Strickland, and Asumu Takikawa. *Migratory Typing: 10 Years Later* SNAPL 2017

- Stephen Chang, Ben Greenman, and Alex Knauth. *Type Systems as Macros* POPL 2017

- Asumu Takikawa, Daniel Feltey, Ben Greenman, Max S. New, Jan Vitek, and Matthias Felleisen. *Is Sound Gradual Typing Dead?* POPL 2016

- Ben Greenman, Fabian Muehlboeck, and Ross Tate. *Getting F-Bounded Polymorphism into Shape* PLDI 2014

Workshop

- Asumu Takikawa, Daniel Feltey, Ben Greenman, Max S. New, Jan Vitek, and Matthias Felleisen. *Position Paper: Performance Evaluation for Gradual Typing* STOP 2015

INVITED TALKS

- VardiFest *Little Tricky Logic: Misconceptions in the Understanding of LTL* 2022

- Racket Con *Shallow Typed Racket* 2020

- Boston University POPV Seminar *Complete Monitoring for Gradual Types* 2020

- GRACE Workshop *Three Approaches to Gradual Typing* 2018

VOLUNTEERING

- Bootstrap Professional Development   Summer 2021
Teaching Assistant

- Housing Chair   SPLASH 2018

- Northeastern CCIS Hiring Committee   Spring 2018
Student Representative

- PRL Offsite   Fall 2019
Organizer

- Each One Teach One   Fall 2015
AP Java Tutor

- Student Volunteer   OOPSLA 2019; Turing Celebration 2017; POPL 2016, 2018; PLDI 2016; ICFP 2015, 2018; ECOOP 2015, 2016

- Ithaca Media Arts   Summer 2012
Teacher, LEGO Mindstorms Camp

- Cornell Math Explorers   Winter 2011
Module Designer