

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

Research Interests

Migratory Typing, Language Design, Type Theory, Constructions

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](#) Organizer 2020
- [Software Development](#) Teaching Assistant 2018, 2020
- [Fundamentals I \(Computing and Programming\)](#) Teaching Assistant 2016
- [Object-Oriented Design](#) Teaching Assistant 2016
- [Functional Programming and Data Structures](#) Teaching Assistant 2012 – 2014

Students Supervised

- Quianfan Chen 2020 – ongoing
B.S., Brown University
- Kuang-Chen Lu 2020 – ongoing
Ph.D., Brown University
- Milo Davis 2017
B.S., Northeastern University
- Zeina Migeed 2016 – 2017
B.S., Northeastern University

Awards

- [CRA/CCC/NSF CI Fellowship](#) 2021 – ongoing
- 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

- Artifact Evaluation Committee Co-Chair [OOPSLA 2022](#)
- Program Committee [ICFP 2021](#)
- Program Committee [PLDI 2021](#)
- Reviewer [JFP Special Issue on Gradual Typing](#)
- Artifact Evaluation Committee [ECOOP 2017](#)
- Artifact Evaluation Committee [OOPSLA 2017](#)

- Artifact Evaluation Committee

OOPSLA 2016

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 2017; POPL 2016, 2018; PLDI 2016; ICFP 2015, 2018; ECOOP 2015, 2016
- Ithaca Media Arts Teacher, LEGO Mindstorms Camp Summer 2012
- Cornell Math Explorers Module Designer Winter 2011

Publications

Journal

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

Conference, Symposium, and Hybrid Conference / Journal

- Ben Greenman, Lukas Lazarek, Christos Dimoulas, and Matthias Felleisen *A Transient Semantics for Typed Racket* Programming 2022
- Kuang-Chen Lu, Ben Greenman, and Shriram Krishnamurthi *Types for Tables: A Language Design Benchmark* Programming 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 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

- [Racket Con](#) 2020
Shallow Typed Racket
- [Boston University POPV Seminar](#) 2020
Complete Monitoring for Gradual Types
- [GRACE Workshop](#) 2018
Three Approaches to Gradual Typing