

Ben Greenman
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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

- 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

- Program Committee HATRA 2022
- Program Committee DLS 2022
- Artifact Evaluation Committee Co-Chair 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, Jan Vitek, and Matthias Felleisen. JFP 2019
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 Krishnamurthi 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. DLS 2018
The Behavior of Gradual Types: A User Study

- 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

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