

Ben Greenman  
Brown University  
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## RESEARCH INTERESTS

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*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

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- 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

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- 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

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- 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

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- 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

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- 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

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- 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

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### 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

- 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. OOPSLA 2018  
*Collapsible Contracts: Fixing a Pathology of Gradual Typing*
- Ben Greenman, Matthias Felleisen. ICFP 2018  
*A Spectrum of Type Soundness and Performance*

- Ben Greenman, Zeina Migeed. PEPM 2018  
*On the Cost of Type-Tag Soundness*
- Sam Tobin-Hochstadt, Matthias Felleisen, Robert Bruce Findler, Matthew Flatt, Ben Greenman, Andrew M. Kent, Vincent St-Amour, T. Stephen Strickland, and Asumu Takikawa. SNAPL 2017  
*Migratory Typing: 10 Years Later*
- Stephen Chang, Ben Greenman, and Alex Knauth. POPL 2017  
*Type Systems as Macros*
- Asumu Takikawa, Daniel Feltey, Ben Greenman, Max S. New, Jan Vitek, and Matthias Felleisen. POPL 2016  
*Is Sound Gradual Typing Dead?*
- Ben Greenman, Fabian Muehlboeck, and Ross Tate. PLDI 2014  
*Getting F-Bounded Polymorphism into Shape*

### Workshop

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

### INVITED TALKS

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- [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

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- 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](#) 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