

Benjamin Lee Greenman  
Brown University  
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## RESEARCH INTERESTS

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Migratory Typing, Language Design, Type Theory, Constructions

## EDUCATION

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

## EMPLOYMENT

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- Rentenna Inc. 2012 – 2014  
Software Engineering Intern
- Cornell University 2012 – 2014  
Research Assistant
- Knightsbridge Park 2017  
Consultant, Web Scraping
- Brown University 2021 – ongoing  
Postdoctoral Researcher, CIFellows 2020

## TEACHING

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- Functional Programming and Data Structures 2012 – 2014  
TA

- Object-Oriented Design TA 2016
- Fundamentals I (Computing and Programming) TA 2016
- Software Development TA 2018, 2020
- Topics in PL and Systems: Tables and Humans Organizer 2020

## STUDENTS SUPERVISED

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

## AWARDS

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- Cornell Computer Science Teaching Award 2013
- Cornell Computer Science Teaching Award 2014
- Northeastern CCIS Graduate Community Service Award 2016
- SIGPLAN Student Scholarship to: 50 Years of the ACM A.M. Turing Award 2017
- CRA/CCC/NSF CI Fellowship 2021 – ongoing

## SERVICE

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- CCIS Social Hour Czar Fall 2014 – Spring 2017
- Student Volunteer ECOOP 2015
- Student Volunteer ICFP 2015
- PRL Webmaster Fall 2016 – Fall 2018
- GTP Webmaster Spring 2016 – Spring 2019
- Student Volunteer POPL 2016
- Student Volunteer PLDI 2016
- Student Volunteer ECOOP 2016
- Artifact Evaluation Committee OOPSLA 2016

• Student Volunteer	Turing Celebration 2017
• Artifact Evaluation Committee	ECOOP 2017
• Artifact Evaluation Committee	OOPSLA 2017
• Student Volunteer	POPL 2018
• CCIS Hiring Committee student representative	Spring 2018
• Student Volunteer (Slack Monitor)	ICFP 2018
• Housing Chair	SPLASH 2018
• PRL Coffee Czar	Fall 2019 – Spring 2020
• Student Volunteer	SPLASH 2019
• PRL Offsite Organizer with Olek Gierczak and Amal Ahmed	Fall 2019
• Reviewer	JFP Special Issue on Gradual Typing
• Program Committee	PLDI 2021
• Program Committee	ICFP 2021

## PUBLICATIONS

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### Journal

• Ben Greenman, Asumu Takikawa, Max S. New, Daniel Feltey, Robert Bruce Findler, Jan Vitek, and Matthias Felleisen. <i>How to Evaluate the Performance of Gradual Type Systems</i>	JFP 2019
• Ben Greenman, Lukas Lazarek, Christos Dimoulas, and Matthias Felleisen <i>A Transient Semantics for Typed Racket</i>	Programming 2022
• Kuang-Chen Lu, Ben Greenman, and Shriram Krishnamurthi <i>Types for Tables: A Language Design Benchmark</i>	Programming 2022

### Conference and Symposium

• Ben Greenman, Fabian Muehlboeck, and Ross Tate. <i>Getting F-Bounded Polymorphism into Shape.</i> Edinburgh, Scotland.	PLDI 2014
• Asumu Takikawa, Daniel Feltey, Ben Greenman, Max S. New, Jan Vitek, and Matthias Felleisen. <i>Is Sound Gradual Typing Dead?</i> St. Petersburg, Florida.	POPL 2016
• Stephen Chang, Ben Greenman, and Alex Knauth. <i>Type Systems as Macros</i> Paris, France.	POPL 2017
• Sam Tobin-Hochstadt, Matthias Felleisen, Robert Bruce Findler, Matthew Flatt, Ben Greenman, Andrew M. Kent, Vincent St-Amour, T. Stephen Strickland, and Asumu Takikawa. <i>Migratory Typing: 10 Years Later</i> Monterey, California.	SNAPL 2017

- Ben Greenman, Zeina Migeed. PEPM 2018  
*On the Cost of Type-Tag Soundness*  
 Los Angeles, California.
- Ben Greenman, Matthias Felleisen. ICFP 2018  
*A Spectrum of Type Soundness and Performance*  
 St. Louis, Missouri.
- Daniel Feltey, Ben Greenman, Christophe Scholliers, Robert Bruce Findler,  
 and Vincent St. Amour. OOPSLA 2018  
*Collapsible Contracts: Fixing a Pathology of Gradual Typing*  
 Boston, Massachusetts.
- Preston Tunnell Wilson, Ben Greenman, Justin Pombrio, Shriram Krishnamurthi. DLS 2018  
*The Behavior of Gradual Types: A User Study*  
 Boston, Massachusetts.
- Ben Greenman, Matthias Felleisen, and Christos Dimoulas OOPSLA 2019  
*Complete Monitors for Gradual Types*  
 Athens, Greece.
- Lukas Lazarek, Ben Greenman, Matthias Felleisen, and Christos Dimoulas ICFP 2021  
*How to Evaluate Blame for Gradual Types*  
 Virtual / Airmeet.
- Lukas Lazarek, Ben Greenman, Matthias Felleisen, and Christos Dimoulas ICFP 2021  
*How to Evaluate Blame for Gradual Types*  
 Virtual / Airmeet.
- Ben Greenman PLDI 2022  
*Deep and Shallow Types for Gradual Languages*  
 San Diego, CA.

## Workshop

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

## INVITED TALKS

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

## ACHIEVEMENTS

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- 35 video game world records [\[link\]](#) 2007 – 2008

- 3rd place Pennsylvania State Birling Championship 2013, 2014
- 2nd place Pennsylvania State Birling Championship 2016, 2017
- 1st place Pennsylvania State Birling Championship 2018, 2019
- 2nd place Barkpeelers Greased Pole Competition 2015, 2018
- Barkpeelers Grand Champion (tied with Ben Barner) [\[link\]](#) 2018