

Benjamin Lee Greenman
Brown University
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RESEARCH INTERESTS

Migratory Typing, Language Design, Type Theory, Constructions

EDUCATION

- 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

- 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

- [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

- 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

- 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

- 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

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

Workshop

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

INVITED TALKS

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

ACHIEVEMENTS

- 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