

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

- TA, Functional Programming and Data Structures 2012 – 2014

- TA, [Object-Oriented Design](#) 2016
- TA, [Fundamentals I \(Computing and Programming\)](#) 2016
- TA, [Software Development](#) 2018, 2020
- Organizer, [Topics in PL and Systems: Tables and Humans](#) 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
- [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. JFP 2019
How to Evaluate the Performance of Gradual Type Systems
Cambridge, United Kingdom.
- Ben Greenman, Lukas Lazarek, Christos Dimoulas, and Matthias Felleisen Programming 2022
A Transient Semantics for Typed Racket
Porto, Portugal.
- Kuang-Chen Lu, Ben Greenman, and Shriram Krishnamurthi Programming 2022
Types for Tables: A Language Design Benchmark
Porto, Portugal.

Conference and Symposium

- Ben Greenman, Fabian Muehlboeck, and Ross Tate. PLDI 2014
Getting F-Bounded Polymorphism into Shape.
Edinburgh, Scotland.
- Asumu Takikawa, Daniel Feltey, Ben Greenman, Max S. New, Jan Vitek, and Matthias Felleisen. POPL 2016
Is Sound Gradual Typing Dead?
St. Petersburg, Florida.
- Stephen Chang, Ben Greenman, and Alex Knauth. POPL 2017
Type Systems as Macros
Paris, France.
- 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
Monterey, California.

- 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

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