Benjamin Lee Greenman

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Research Interests

Migratory Typing, Language Design, Type Theory, Constructions

Education

- Hudson Valley Community College $\hfill$ 2009 – 2010
  General Studies

- Cornell University $\hfill$ 2010 – 2013
  Degree   Bachelor of Science
  Major   Industrial and Labor Relations
  Minor   Computer Science

- Cornell University $\hfill$ 2013 – 2014
  Degree   Master of Engineering
  Major   Computer Science
  Advisor   Ross Tate

- Northeastern University $\hfill$ 2014 – 2020
  Degree   Ph.D
  Area   Programming Languages
  Advisor   Matthias Felleisen
  Thesis   Deep and Shallow Types

Employment

- Rentenna Inc. $\hfill$ 2012 – 2014
  Software Engineering Intern

- Cornell University $\hfill$ 2012 – 2014
  Research Assistant

- Knightsbridge Park $\hfill$ 2017
  Consultant, Web Scraping

- Brown University $\hfill$ 2021 – ongoing
  Postdoctoral Researcher, CIFellows 2020

Teaching

- Functional Programming and Data Structures $\hfill$ 2012 – 2014
  TA

- [Object-Oriented Design](#)   2016
  TA

- [Fundamentals I (Computing and Programming)](#)   2016
  TA

- [Software Development](#)   2018, 2020
  TA

- [Topics in PL and Systems: Tables and Humans](#)   2020
  Organizer

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
- Artifact Evaluation Committee
- Artifact Evaluation Committee
- Student Volunteer
- CCIS Hiring Committee student representative Spring 2018
- Student Volunteer (Slack Monitor)
- Housing Chair
- PRL Coffee Czar Fall 2019 – Spring 2020
- Student Volunteer
- PRL Offsite Organizer with Olek Gierczak and Amal Ahmed Fall 2019
- Reviewer
- Program Committee
- Program Committee

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

- 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

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.   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,   OOPSLA 2018
  and Vincent St. Amour.
  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.

Workshop

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

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