

Benjamin Lee Greenman
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Research Interests

Migratory Typing, Language Design, Type Theory, Constructions

Education

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

Employment

Rentenna Inc. , New York NY • <i>Software Engineering Intern</i>	2012 – 2014
Cornell University , Ithaca NY • <i>Teaching Assistant for CS 3110</i> • <i>Research Assistant</i>	2012 – 2014 2013 – 2014
Knightsbridge Park , New York NY • <i>Consultant (web scraping)</i>	2017

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* 2021–2023

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.

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, 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 / Airmeeet.

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

- *Three Approaches to Gradual Typing.* GRACE 2018
- *Shallow Typed Racket.* Racket Con 2020

Students Supervised

Zeina Migeed B.S. Northeastern University
Milo Davis B.S. Northeastern University

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