Benjamin Lee Greenman

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Research Interests

Migratory Typing, Language Design, Type Theory, Constructions

Education

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

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

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

- Hudson Valley Community College   2009 – 2010
  - *General Studies*

Employment

- Brown University   2021 – ongoing
  Postdoctoral Researcher, CIFellows 2020

- Knightsbridge Park   2017
  Consultant, Web Scraping

- Cornell University   2012 – 2014
  Research Assistant

- Rentenna Inc.   2012 – 2014
  Software Engineering Intern

Teaching ───

- Organizer, Topics in PL and Systems: Tables and Humans   2020
- TA, Software Development   2018, 2020
- TA, Fundamentals I (Computing and Programming)   2016
- TA, Object-Oriented Design   2016
- TA, Functional Programming and Data Structures   2012 – 2014

Students Supervised ───────────────────────────────────

- Quianfan Chen   2020 – ongoing
  B.S., Brown University

- Kuang-Chen Lu   2020 – ongoing
  Ph.D., Brown University

- Milo Davis   2017
  B.S., Northeastern University

- Zeina Migeed   2016 – 2017
  B.S., Northeastern University

Awards ──

- CRA/CCC/NSF CI Fellowship   2021 – ongoing
- Northeastern CCIS Graduate Community Service Award   2016
- Cornell CS Teaching Award   2014
- Cornell CS Teaching Award   2013

Service ──

- Artifact Evaluation Committee Co-Chair Jr.   OOPSLA 2022
- Program Committee   ICFP 2021
- Program Committee   PLDI 2021
- Reviewer   JFP Special Issue on Gradual Typing
- Housing Chair   SPLASH 2018
- CCIS Hiring Committee Student Rep.   Spring 2018
- Artifact Evaluation Committee   OOPSLA 2016, 2017; ECOOP 2017

Publications

Journal

- 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.

- Ben Greenman, Asumu Takikawa, Max S. New, Daniel Feltey, Robert Bruce Findler,   JFP 2019
  Jan Vitek, and Matthias Felleisen.
  How to Evaluate the Performance of Gradual Type Systems
  Cambridge, United Kingdom.

Conference and Symposium

- Lukas Lazarek, Ben Greenman, Matthias Felleisen, and Christos Dimoulas   ICFP 2021
  How to Evaluate Blame for Gradual Types
  Virtual / Airmeet.

- Ben Greenman, Matthias Felleisen, and Christos Dimoulas   OOPSLA 2019
  Complete Monitors for Gradual Types
  Athens, Greece.

- Preston Tunnell Wilson, Ben Greenman, Justin Pombrio, Shriram Krishnamurthi.   DLS 2018
  The Behavior of Gradual Types: A User Study
  Boston, Massachusetts.

- 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.

- Ben Greenman, Matthias Felleisen.   ICFP 2018
  A Spectrum of Type Soundness and Performance
  St. Louis, Missouri.

- Ben Greenman, Zeina Migeed.   PEPM 2018
  On the Cost of Type-Tag Soundness
  Los Angeles, California.

- Sam Tobin-Hochstadt, Matthias Felleisen, Robert Bruce Findler, Matthew Flatt,   SNAPL 2017
  Ben Greenman, Andrew M. Kent, Vincent St-Amour, T. Stephen Strickland,
  and Asumu Takikawa.
  Migratory Typing: 10 Years Later
  Monterey, California.

- Stephen Chang, Ben Greenman, and Alex Knauth.   POPL 2017
  Type Systems as Macros
  Paris, France.

- Asumu Takikawa, Daniel Feltey, Ben Greenman, Max S. New, Jan Vitek,   POPL 2016
  and Matthias Felleisen.
  Is Sound Gradual Typing Dead?
  St. Petersburg, Florida.

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- Ben Greenman, Fabian Muehlboeck, and Ross Tate.   PLDI 2014
  Getting F-Bounded Polymorphism into Shape.
  Edinburgh, Scotland.

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

- Racket Con   2020
  Shallow Typed Racket.

- BU POPV Seminar   2020
  Complete Monitoring for Gradual Types.

- GRACE Workshop   2018
  Three Approaches to Gradual Typing.