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## RESEARCH INTERESTS

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*General interests:* Language design issues regarding proofs, performance, and people. What guarantees do languages offer, how efficiently can they run, and to what extent do they help users meet their goals?

*Specific interests:* Migratory Typing, Language Interoperability, Type Theory, Formal Methods

## EDUCATION

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- 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

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- University of Utah 2023 – ongoing
  - Assistant Professor
- Brown University 2021 – 2023
  - Postdoctoral Researcher, CIFellows 2020
  - Mentor* Shriram Krishnamurthi

- Knightsbridge Park  
Consultant, Web Scraping 2017
- Cornell University  
Research Assistant 2012 – 2014
- Rentenna Inc.  
Software Engineering Intern 2012 – 2014

## TEACHING

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- Topics in PL and Systems: Tables and Humans  
Organizer 2021
- Software Development  
Teaching Assistant 2018, 2020
- Fundamentals I (Computing and Programming)  
Teaching Assistant 2016
- Object-Oriented Design  
Teaching Assistant 2016
- Functional Programming and Data Structures  
Teaching Assistant 2012 – 2014

## STUDENTS SUPERVISED

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- Rob Durst  
—, not a student 2023 – ongoing
- Caspar Popova  
—, not a student 2023 – ongoing
- Vivaan Rajesh  
—, Hillcrest High School 2023 – ongoing
- Dibri Nsofor  
Ph.D., University of Utah 2023 – ongoing
- Ashton Wiersdorf  
Ph.D., University of Utah 2022 – ongoing
- Taylor Allred  
M.S., University of Utah 2022 – 2023
- Siddhartha Prasad  
Ph.D., Brown University 2022 – ongoing
- Qianfan Chen  
Sc.B. with Honors [thesis], Brown University 2021 – 2022

- Kuang-Chen Lu 2021 – 2022  
Ph.D., Brown University
- Milo Davis 2017  
B.S., Northeastern University
- Zeina Migeed 2016 – 2017  
B.S., Northeastern University

## AWARDS

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- NSF SHF: Small: Little Tricky Logics 2023 – 2025  
Postdoc
- CRA/CCC/NSF CI Fellowship 2021 – 2023
- SIGPLAN Student Scholarship to: 50 Years of the ACM A.M. Turing Award 2017
- Northeastern CCIS Graduate Community Service Award 2016
- Cornell CS Teaching Award 2014
- Cornell CS Teaching Award 2013

## PROFESSIONAL SERVICE

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- Co-Chair of Artifact Evaluation Committee & ERC OOPSLA 2022, 2023
- Program Committee TFP 2023  
HATRA 2022, 2023  
DLS 2022  
ICFP 2021  
PLDI 2021
- External Review Committee ESOP 2023, ICFP 2023
- Artifact Evaluation Committee ECOOP 2017, OOPSLA 2016, 2017

## PUBLICATIONS

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### Journal

- Ben Greenman, Christos Dimoulas, and Matthias Felleisen. TOPLAS 2023  
*Typed–Untyped Interactions: A Comparative Analysis*
- 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*

## Conference, Symposium, and Hybrid Conference / Journal

- Ben Greenman, Matthias Felleisen, and Christos Dimoulas OOPSLA 2023  
*How Profilers Can Help Navigate Type Migration*
- Matthew Flatt, Taylor Allred, Nia Angle, Stephen De Gabrielle, Robert Bruce Finder, OOPSLA 2023  
Jack Firth, Kiran Gopinathan, Ben Greenman, Siddhartha Kasivajhula, Alex Knauth, Jay McCarthy,  
Sam Phillips, Sorawee Porncharoenwase, Jens Axel Sogaard, and Sam Tobin-Hochstadt  
*Rhombus: A New Spin on Macros Without All The Parentheses*
- Lukas Lazarek, Ben Greenman, Matthias Felleisen, and Christos Dimoulas ICFP 2023  
*How to Evaluate Blame for Gradual Types, Part 2*
- Ben Greenman ACM REP 2023  
*GTP Benchmarks for Gradual Typing Performance*
- Ben Greenman, Sam Saarinen, Tim Nelson, and Shriram Krishnamurthi Programming 7.2, 2023  
*Little Tricky Logic: Misconceptions in the Understanding of LTL*
- Kuang-Chen Lu, Ben Greenman, Carl Meyer, Dino Viehland, Programming 7.1, 2023  
Aniket Panse, and Shriram Krishnamurthi  
*Gradual Soundness: Lessons from Static Python*
- Siddhartha Prasad, Ben Greenman, Tim Nelson, John Wrenn, Koli Calling, 2022  
and Shriram Krishnamurthi  
*Making Hay from Wheats: A Classsourcing Method to Identify Misconceptions*
- Ben Greenman PLDI 2022  
*Deep and Shallow Types for Gradual Languages*
- Ben Greenman, Lukas Lazarek, Christos Dimoulas, and Matthias Felleisen Programming 6.2, 2022  
*A Transient Semantics for Typed Racket*
- Kuang-Chen Lu, Ben Greenman, and Shriram Krishnamurthi Programming 6.1, 2022  
*Types for Tables: A Language Design Benchmark*
- Lukas Lazarek, Ben Greenman, Matthias Felleisen, and Christos Dimoulas ICFP 2021  
*How to Evaluate Blame for Gradual Types*
- Ben Greenman, Matthias Felleisen, and Christos Dimoulas OOPSLA 2019  
*Complete Monitors for Gradual Types*
- Preston Tunnell Wilson, Ben Greenman, Justin Pombrio, Shriram Krishnamurthi. DLS 2018  
*The Behavior of Gradual Types: A User Study*
- Daniel Feltey, Ben Greenman, Christophe Scholliers, Robert Bruce Findler, OOPSLA 2018  
and Vincent St. Amour.  
*Collapsible Contracts: Fixing a Pathology of Gradual Typing*
- Ben Greenman, Matthias Felleisen. ICFP 2018  
*A Spectrum of Type Soundness and Performance*
- Ben Greenman, Zeina Migeed. PEPM 2018  
*On the Cost of Type-Tag Soundness*

- Sam Tobin-Hochstadt, Matthias Felleisen, Robert Bruce Findler, Matthew Flatt, Ben Greenman, Andrew M. Kent, Vincent St-Amour, T. Stephen Strickland, and Asumu Takikawa. *Migratory Typing: 10 Years Later* SNAPL 2017
- Stephen Chang, Ben Greenman, and Alex Knauth. *Type Systems as Macros* POPL 2017
- Asumu Takikawa, Daniel Feltey, Ben Greenman, Max S. New, Jan Vitek, and Matthias Felleisen. *Is Sound Gradual Typing Dead?* POPL 2016
- Ben Greenman, Fabian Muehlboeck, and Ross Tate. *Getting F-Bounded Polymorphism into Shape* PLDI 2014

## Workshop

- Taylor Allred, Xinyi Li, Ashton Wiersdorf, Ben Greenman, and Ganesh Gopalakrishnan. *FlowFPX: Nimble Tools for Debugging Floating-Point Exceptions* JuliaCon 2023
- Asumu Takikawa, Daniel Feltey, Ben Greenman, Max S. New, Jan Vitek, and Matthias Felleisen. *Position Paper: Performance Evaluation for Gradual Typing* STOP 2015

## INVITED TALKS

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- [TLf@AAAI-SSS'23](#) 2023  
*Towards LTLf Misconceptions*
- [VardiFest, NJPLS](#) 2022  
*Little Tricky Logic: Misconceptions in the Understanding of LTL*
- [Racket Con](#) 2020, 2022  
*Shallow Typed Racket*  
*Shallow and Optional Types for Typed Racket*
- [Boston University POPV Seminar](#) 2020  
*Complete Monitoring for Gradual Types*
- [GRACE Workshop](#) 2018  
*Three Approaches to Gradual Typing*

## VOLUNTEERING

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- Bootstrap Professional Development Teaching Assistant Summer 2021
- Housing Chair SPLASH 2018

- Northeastern CCIS Hiring Committee  
Student Representative Spring 2018
- PRL Offsite  
Organizer Fall 2019
- [Each One Teach One](#)  
AP Java Tutor Fall 2015
- Student Volunteer [OOPSLA 2019](#); [Turing Celebration 2017](#); [POPL 2016, 2018](#);  
[PLDI 2016](#); [ICFP 2015, 2018](#); [ECOOP 2015, 2016](#)
- Ithaca Media Arts  
Teacher, LEGO Mindstorms Camp Summer 2012
- Cornell Math Explorers  
Module Designer Winter 2011