dbp@dbpmail.net 401.368.5511

SUMMARY

PhD candidate (programming languages).

ACADEMIC PUBLICATIONS

Rust Distilled: An Expressive Tower of Languages.

• Aaron Weiss, Daniel Patterson, and Amal Ahmed. ML 2018.

FunTAL: Reasonably Mixing a Functional Language with Assembly.

• Daniel Patterson, Jamie Perconti, Christos Dimoulas, and Amal Ahmed. PLDI 2017.

Linking Types for Multi-Language Software: Have Your Cake and Eat It Too.

• Daniel Patterson and Amal Ahmed. SNAPL 2017.

CaptainTeach: Multi-Stage, In-Flow Peer Review for Programming Assignments.

• Joe Gibbs Politz, Daniel Patterson, Kathi Fisler, and Shriram Krishnamurthi. ITiCSE 2014.

Python: The Full Monty - A Tested Semantics for the Python Programming Language.

• Joe Gibbs Politz, Alejandro Martinez, Matthew Milano, Sumner Warren, Daniel Patterson, Junsong Li, Anand Chitipothu, and Shriram Krishnamurthi. OOP-SLA 2013.

ACADEMIC SERVICE

22nd International Conference on Functional Programming (ICFP 2017).

• External Reviewer

46th Symposium on Principles of Programming Languages (POPL 2019).

- External Reviewer
- Artifact Evaluation Committee Member

40th Conference on Programming Language Design and Implementation (PLDI 2019)

• Artifact Evaluation Committee Member

TEACHING EXPERIENCE

- Head TA for Fundamentals of CS (CS2500) at Northeastern.
- Head TA for *Probability and Computation* (CS155) at Brown.
- TA for Introduction to Probability and Computing (CS45) at Brown.

INDUSTRY EXPERIENCE

Founder, Position Development - Haskell, Ruby

2014-2016

Media, Publishing, Non-Profits

• Founded consulting business (positiondev.com) doing web development in Haskell and Ruby. Built ecommerce stores, subscription systems, paywalls, mailing lists.

Contractor - OCaml, Amazon AWS

Spring 2015

Cloud Orchestration - Inhabited Type

• Built foundational libraries and implementations for a declarative language-based cloud orchestration startup.

AWARDS

National Science Foundation, GRFP 2018 Honorable Mention

EDUCATION

Ph.D., Computer Science (ongoing) Northeastern University, Boston MA

Bachelor of Science, Math and Computer Science

Brown University, Providence RI