David Moon Curriculum Vitae

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PhD Candidate, Computer Science • University of Michigan

Advisor: Cyrus Omar

2018-19 PhD Student, Computer Science • University of Colorado Boulder

Transferred to Michigan

2011-16 BA, Mathematics & Computer Science • Williams College

Thesis: Specifying & Enforcing Synchronization Disciplines in Multithreaded

Programs

Advisor: Stephen Freund

Publications

Gradual Structure Editing with Obligations • VL/HCC

David Moon, Andrew Blinn, Cyrus Omar

2023 Live Pattern Matching with Typed Holes • OOPSLA

Yongwei Yuan, Scott Guest, Eric Griffis, Hannah Potter, David Moon, Cyrus Omar

🏋 Distinguished Paper Award

2022 tylr: A Tiny Tile-Based Structure Editor • TyDe

David Moon, Andrew Blinn, Cyrus Omar

2022 An Integrative Human-Centered Architecture for Interactive Programming Assistants • VL/HCC

Andrew Blinn, David Moon, Eric Griffis, Cyrus Omar

2021 Filling Typed Holes with Live GUIs • PLDI

Cyrus Omar, David Moon, Andrew Blinn, Ian Voysey, Nick Collins, Ravi Chugh

2015 Sets Characterized by Missing Sums and Differences in Dilating Polytopes • JNT Thao Do, Archit Kulkarni*, Steven J Miller, David Moon*, Jake Wellens, James Wilcox

* joint lead authors (authors listed alphabetically by last name)

2015 Sums and Differences of Random Correlated Sets • JNT

Thao Do, Archit Kulkarni, Steven J Miller, David Moon, Jake Wellens

Generalizing Zeckendorf's Theorem to f-decompositions • JNT 2014

Philippe Demontigny, Thao Do, Archit Kulkarni, Steven J Miller, David Moon, Umang Varma

Honors

2020 NSF GRFP Honorable Mention

2018 Outstanding PhD Teaching Award • University of Colorado Boulder

2007-11 Caroline D Bradley Scholar

Talks

2023 Gradual Structure Editing with Obligations • VL/HCC

2022 tylr: A Tiny Tile-Based Structure Editor • UPenn

Guest lecture for Andrew Head's graduate seminar Live and Literate Programming.

2022 tylr: A Tiny Tile-Based Structure Editor • TyDe

2021 Restructuring Structure Editing • LIVE

Naturally Editing Typed Expressions with Holes • Midwest PL Summit

Joint presentation with Cyrus Omar

Flexible Structure Editing of Well-Typed Expressions • TyDe

2013 Sets Characterized by Missing Sums and Differences in Z^D • YMC

Teaching

University of Michigan

2024 EECS 490: Programming Languages (TA)

2023 EECS 490: Programming Languages (TA) 2022 EECS 490: Programming Languages (TA)

2020 EECS 490: Programming Languages (TA)

University of Colorado Boulder

2018 CSCI 3155: Principles of Programming Languages (TA)

City College of New York

2018 CSC 59940: Front-End Web Application Development (co-instructor)

Williams College

2015 MATH 394: Galois Theory (grader)

2015 CSCI 136: Data Structures (grader)

2012 MATH 200: Discrete Mathematics (grader)

Service

2024 Program Committee • HATRA

2024 Program Committee • LIVE

2020-22 Program Committee • LIVE

2021 Artifact Evaluation Committee • PLDI

Industry

2016-18 Software Engineer • Addepar

Web application development using Ember.js and Java.

Developed interfaces for benchmarking investment portfolios.