

JARED PINCUS

PhD Student in Computer Science
Boston University – Boston, MA

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EDUCATION

Boston University	F'22–Present
PhD in Computer Science	Exp. '27
<i>Advisors: Marco Gaboardi, Alley Stoughton</i>	
Stevens Institute of Technology	F'18–S'22
MS in Computer Science	S'22
<i>Advisor: Eric Koskinen</i>	
<i>Thesis: "Commutativity Reasoning for the Heap"</i>	
BS in Computer Science	S'21
<i>With Highest Honor; Pinnacle Scholar</i>	

ACCOLADES

Stevens Institute of Technology	
Excellence in Graduate Research Award	'22
Stephen L. Bloom Theoretical C.S. Award	'21
Upsilon Pi Epsilon Inductee	'20

TEACHING

Boston University	
CS-320: Programming Languages [TF]	S'25
Stevens Institute of Technology	
CS-496: Programming Languages [TA]	S'21
CS-135: Discrete Structures [TA]	F'19–F'20
Pre-College Game Design [TA]	'20, '21
Academic Support Center [Peer Tutor]	S'19

SERVICE

BU GRS Student Ambassador	F'23–Present
HillsHacks Annual Hackathon	'19–Present
<i>Workshop host and competition judge</i>	
Stevens Game Development Club	
<i>Vice President F'20; Secretary S'20</i>	
Event volunteer	
POPL '25: student volunteer	
Bridges '23, '24: Family Day volunteer	
OPLSS '24: video production lead, technical team	
LICS '23: technical team	

EMPLOYMENT

Dream Egg Games, technical and creative consultant	'21–Present
<i>Co-created Computer Junkyard board game, set for worldwide distribution in 2026.</i>	
<i>Helped launch Kickstarter campaign for the project in 2025, which raised over \$250k.</i>	
Analytical Mechanical Associates, Formal Methods Intern	Summer '25
<i>Collaborated with NASA Langley Formal Methods Research Program.</i>	
<i>Contributed to ongoing research in floating-point error bound analysis.</i>	

PUBLICATIONS

Jared Pincus, Eric Koskinen. "An Abstract Domain for Heap Commutativity." Paper, VMCAI '25.
<https://doi.org/10.48550/arxiv.2411.12857>.

Jared Pincus. "Properly Scaling the Speed of a Model Roller Coaster." Short paper, Bridges '24.
<https://archive.bridgesmathart.org/2024/bridges2024-495.html>.

Adam Chen, Tegan Brennan, Parisa Fathololumi, Eric Koskinen, Mihai Nicola, **Jared Pincus**.
"Better Predicate Pruning and Heuristics for Commutativity Synthesis." Paper, ATVA '23.
https://doi.org/10.1007/978-3-031-45332-8_5

Jared Pincus. "Developing a Sculpture of the Trihelical Square Tiling." Short paper, Bridges '23.
<https://archive.bridgesmathart.org/2023/bridges2023-409.html>.

Adam Chen, Parisa Fathololumi, Eric Koskinen, **Jared Pincus**. "Veracity: declarative multicore programming with commutativity." Paper, OOPSLA '22. <https://doi.org/10.1145/3563349>.

Jared Pincus. "Commutativity Reasoning for the Heap." MS thesis '22.
<https://proquest.com/docview/2681771819>.

Jared Pincus, Jordan W. Suchow. "Estimating the dimensionality of face space empirically."
Abstract, Journal of Vision '20. <https://doi.org/10.1167/jov.20.11.1456>.

TALKS / WORKSHOPS

Conferences

An Abstract Domain for Heap Commutativity	VMCAI '25
Properly Scaling the Speed of a Model Roller Coaster	Bridges '24
Developing a Sculpture of the Trihelical Square Tiling	Bridges '23

Workshops and Symposia

Data Abstraction for Adversarial Security	NEPLS '25, FCS '25
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Seminars and Events

Lessons from a Family of Entrepreneurs [Invited]	BU Kolachalama Lab '25
Truth and Uncertainty in Science and Faith <i>With Scientists in Synagogues Grant</i>	BU GradHillel '24
Local Structure Abstractions for Heap Commutativity	BU POPV '23
Game Prototyping in JavaFX	SGDC Learn Jam '20

HillsHacks High School Hackathon

Foundations of Computer Science	'21, '25
But What Should I Study?	'24
Let's Make a Programming Language!	'22, '23
Functional Programming in Racket	'19, '20

POSTERS

Jared Pincus, Eric Koskinen. "Local Structure Abstractions for Heap Commutativity." BU PhD on Tap '23.

Jared Pincus, David Naumann. "Confidentiality Enforcement via Type Abstraction."
Stevens Undergraduate Research Symposium '20.

Jared Pincus, Jordan W. Suchow. "Empirically Estimating the Dimensionality of Face Space."
CogSci'20, VSS'20, Neuromatch 2.0, Stevens Undergraduate Research Symposium '19.

ADDITIONAL WORKS

Trihelical Square Tiling
3D-printed sculpture

JMM Art Exhibition '23