Jeffrey M. Helt

Computer Science Department Princeton University 35 Olden St., Princeton, NJ 08540

Education Princeton University

Princeton, NJ

PhD in Computer Science. Expected May 2023.

Adviser: Wyatt Lloyd

Carnegie Mellon University

Pittsburgh, PA

MS in Computer Science. May 2018. Advisers: Vyas Sekar & Srini Seshan

GPA: 4.08/4.33

Amherst College Amherst, MA

BA in Computer Science & Economics. May 2013.

GPA: 3.67/4.0

Research Interests

Databases, distributed systems, computer networks, operating systems.

In Preparation

[1] **Jeffrey Helt**, Guoyao Feng, Vyas Sekar, Srini Seshan. Sandpaper: Mitigating performance interference in CDN edge proxies.

Refereed Publications

- [1] Soo-Jin Moon, **Jeffrey Helt**, Yifei Yuan, Yves Bieri, Sujata Banerjee, Vyas Sekar, Wenfei Wu, Mihalis Yannakakis, Ying Zhang. Alembic: Automated Model Inference for Stateful Network Functions. To appear in *Proc. 16th USENIX NSDI*. February 2019.
- [2] Heqing Ya, Haonan Sun, **Jeffrey Helt**, Tai Sing Lee. Learning to Associate Words and Images Using a Large-scale Graph. In *Proc. 14th CRV*. May 2017.

Teaching Experience

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Spring 2017	Teaching Assistant	15-386: Neural Computation, Carnegie Mellon	
	Advanced undergraduate and master's course on the computational mechanisms un-		
	derlying intelligent behavior. About 40 students. Graded and held weekly office hours.		
2015 – 2016 Volunteer Teacher High-school course on advanced Worked with 2 other volunteers		Advanced Computer Science, Code Nation d web development. About 25 students.	
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2014 – 2015 **Volunteer Teacher** Computer Science Foundations, Code Nation High-school course on the fundamentals of computer science and web application de-

velopment. About 30 students.

Worked with 2 other volunteers to teach classes twice weekly.

Fall 2012, Teaching Assistant COSC-111: Computer Science I, Amherst College Spring 2011, Introductory undergraduate course on the fundamentals of computer science and Java programming. About 120 students.

Assisted students during weekly lab sessions.

Professional Experience

2018 – Present	Research Assistant , Princeton University.
2017 – 2018	Research Assistant, Carnegie Mellon University.
2014 – 2016	Software Engineer, Squarespace.
2013 – 2014	FICC Technology Analyst, Goldman Sachs.

Service

2019 Member, Princeton CS Graduate Professional Development Committee.

Member, Carnegie Mellon MSCS Admissions Committee.
 Member, Carnegie Mellon MSCS Admissions Committee.

Honors & Awards

2018 Dr. Ilian L. Mihov '96 Graduate Fellowship.

2017 Siebel Scholar, Class of 2018.2017 Amherst Memorial Fellowship.

2016 John Woodruff Simpson Fellowship.

2010 – 2013 NESCAC All-Academic.

Graduate Coursework

Princeton University

Spring 2019 Advanced Computer Systems (Instructor: Michael Freedman).

Spring 2019 Theoretical Machine Learning (Instructor: Rob Schapire).

Fall 2018 Automated Reasoning about Software (Instructor: Zak Kincaid).

Fall 2018 Advanced Computer Networks (Instructor: Jen Rexford).

Carnegie Mellon University

Spring 2018 Computer Networks (Instructor: Srinivasan Seshan).

Spring 2018 Computability and Learnability (Instructor: Jeremy Avigad).

Fall 2017 Advanced Operating Systems & Distributed Systems (Instructor: David Andersen).

Spring 2017 Introduction to Machine Learning (Instructors: Aarti Singh & Pradeep Ravikumar).

Spring 2017 Computer Vision (Instructor: Deva Ramanan).

Fall 2016 Probability & Mathematical Statistics (Instructor: Sivaraman Balakrishnan).