Education

2016	PhD in Computer Science	University of Wisconsin-Madison
	Advisors: Professor Andrea Arpaci-Dusseau	
	Professor Remzi Arpaci-Dusseau	
2012	Masters in Computer Science	University of Wisconsin-Madison
2010	Bachelors in Computer Science and Math	University of Wisconsin-Madison

Work History

- University of Wisconsin-Madison: Teaching Faculty (2018 to present)
- Microsoft: Scientist at Gray Systems Lab (2016 to 2018)
- University of Wisconsin-Madison: Instructor for CS 537, Intro to OS (Spring 2016)
- Tintri: Summer Intern (2015)
- University of Wisconsin-Madison: Instructor for CS 537, Intro to OS (Fall 2014)
- Facebook: Summer Intern (2012, 2013)
- Google: Summer Intern (2011)
- Qualcomm: Summer Intern (2010)
- Dairyland Power: Summer Intern (2006, 2007, 2008)

Teaching History (2700 students total)

- 2022 Spring: CS 320 Data Sci Programming II (395 students); Directed Study (7 students)
- 2021 Fall: CS 320 Data Sci Programming II (322 students); Directed Study (3 students)
- 2021 Spring: CS 320 Data Programming II (268 students); Directed Study (5 students)
- 2020 Fall: CS 320 Data Programming II (127 students); CS 638 DS in WI (18 students)
- 2020 Spring: CS 320 Data Programming II (116 students)
- 2019 Fall: CS 301 Intro Data Programming (598 students); CS 638 DS in Madison (17 students)
- 2019 Spring: CS 301 Intro Data Programming (375 students); Directed Study (10 students)
- 2018 Fall: CS 301 Intro Data Programming (316 students)
- 2016 Spring: CS 537 Intro to Operating Systems (48 students), Epic Campus
- 2014 Fall: CS 537 Intro to Operating Systems (75 students)

Professional Activities

- Data Science Program Committee (DSPC) member (Fall 2021 to present)
- dotData (UW-Madison Data Science Club) faculty advisor (Spring 2021 to present)
- DS Bazaar Research Bazaar: led Data Science for Cities interactive discussion (February 2021)
- PC for 7th Workshop on Serverless Computing (December 2021)
- DS Bazaar Research Bazaar: led Data Science in the City of Madison session (January 2020)
- PC for 5th Workshop on Serverless Computing (December 2019)
- PC for 4th Workshop on Serverless Computing (December 2018)
- PC for 3rd Workshop on Serverless Computing (July 2018)
- PC for 2st Workshop on Serverless Computing (December 2017)
- PC for 1st Workshop on Serverless Computing (June 2017)

Awards and Recognition

- SOSP Best Paper: A File is Not a File...
- Guri Sohi Fellowship
- Facebook Fellowship
- NSF Fellowship
- Course highlighted in Capital Times article: 'Data Science in Madison' class offers UW students 'real world' projects
- Nominated as an Honored Instructor (University Housing) (http://www.housing.wisc.edu/academics/honoredinstructors.htm)
- UW-Madison CS Departmental Golden Brick Recognition (2021, 2022)
- U.S. Patent 7,613,619: Method for identifying allergens...
- U.S. Patent 10,430,378: Fast container distribution with storage acceleration

Publications (1480 citations total – Google Scholar)

Anjali, **Tyler Caraza-Harter**, Michael Swift. Blending Containers and Virtual **VEE 2020** Machines: A Study of Firecracker and gVisor.

Ethan G Young, Pengfei Zhu, **Tyler Caraza-Harter**, Andrea C Arpaci-Dusseau, **HotCloud 2019** Remzi H Arpaci-Dusseau. The True Cost of Containing: A gVisor Case Study.

Edward Oakes, Leon Yang, Dennis Zhou, and Kevin Houck, **Tyler Harter**, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. SOCK: Rapid Task Provisioning with Serverless-Optimized Containers.

Edward Oakes, Leon Yang, Kevin Houck, **Tyler Harter**, Andrea C. Arpaci- **WOSC 2017** Dusseau, Remzi H. Arpaci-Dusseau. Fast and Flexible Containerization with Pipsqueak.

Scott Hendrickson, Stephen Sturdevant, Edward Oakes, **Tyler Harter**, Venkateshwaran Venkataramani, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. (Winter 2016) Serverless Computation with OpenLambda.

Scott Hendrickson, Stephen Sturdevant, **Tyler Harter**, Venkateshwaran Venkataramani,, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Serverless Computation with OpenLambda.

Tyler Harter, Brandon Salmon, Rose Liu, Andrea C. Arpaci-Dusseau, Remzi H. FAST 2016 Arpaci-Dusseau. Slacker: Fast Distribution with Lazy Docker Containers.

Suli Yang, **Tyler Harter**, Nishant Agrawal, Salini Selvaraj Kowsalya, Anand Krishnamurthy, Samer Al-Kiswany, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Split-Level I/O Scheduling.

Tyler Harter, Dhruba Borthakur, Siying Dong, Amitanand Aiyer, Liyin Tang, ;login Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Analysis of HDFS Under (June 2014) HBase: A Facebook Messages Case Study.

Tyler Harter, Dhruba Borthakur, Siying Dong, Amitanand Aiyer, Liyin Tang, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Analysis of HDFS Under HBase: A Facebook Messages Case Study.

Zev Weiss, **Tyler Harter**, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. **SOSP 2013** ROOT: Replaying Multithreaded Traces with Resource-Oriented Ordering.

Thanh Do, **Tyler Harter**, Yingchao Liu, Haryadi S. Gunawi, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. HARDFS: Hardening HDFS with Selective and Lightweight Versioning.

Tyler Harter, Chris Dragga, Michael Vaughn, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. A File is Not a File: Understanding the I/O Behavior of Apple Desktop Applications.

Tyler Harter, Chris Dragga, Michael Vaughn, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau. A File is Not a File: Understanding the I/O Behavior of Apple Desktop Applications.