

Ellis Michael

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Education

University of Washington

Ph.D. Computer Science

July 2015–Present

Advisors: Dan Ports & Tom Anderson

University of Washington

M.S. Computer Science

July 2015–March 2017

University of Texas at Austin

B.S. Computer Science Honors, B.A. Plan II Honors

August 2011–May 2015

Graduated with Highest Honors, GPA: 4.0

Research Interests

I am interested in the theory and practice of distributed systems.

Publications

1. "Towards Causal Datacenter Networks."
Ellis Michael and Dan R. K. Ports.
Proceedings of the 5th Workshop on Principles and Practice of Consistency for Distributed Data (PaPoC '18), Porto, Portugal. April 2018.
2. "Eris: Coordination-Free Consistent Transactions Using In-Network Concurrency Control."
Jialin Li, Ellis Michael, and Dan R. K. Ports.
Proceedings of the 26th ACM Symposium on Operating Systems Principles (SOSP '17), Shanghai, China. October 2017.
3. "Eris: Coordination-Free Consistent Transactions Using In-Network Concurrency Control (Extended Version)."
Jialin Li, Ellis Michael, and Dan R. K. Ports.
Technical Report UW-CSE-17-10-01, University of Washington CSE. October 2017.
4. "Recovering Shared Objects Without Stable Storage."
Ellis Michael, Dan R. K. Ports, Naveen Kr. Sharma, and Adriana Szekeres.
Proceedings of the 31st International Symposium on Distributed Computing (DISC '17), Vienna, Austria. October 2017.
5. "Recovering Shared Objects Without Stable Storage (Extended Version)."

Ellis Michael, Dan R. K. Ports, Naveen Kr. Sharma, and Adriana Szekeres.
Technical Report UW-CSE-17-08-01, University of Washington CSE. August 2017.

6. "Just Say NO to Paxos Overhead: Replacing Consensus with Network Ordering."
Jialin Li, Ellis Michael, Adriana Szekeres, Naveen Kr. Sharma, and Dan R. K. Ports.
Proceedings of the 12th USENIX Symposium on Operating Systems Design and Implementation (OSDI '16), Savannah, GA, USA. November 2016.
7. "Just Say NO to Paxos Overhead: Replacing Consensus with Network Ordering (Extended Version)."
Jialin Li, Ellis Michael, Adriana Szekeres, Naveen Kr. Sharma, and Dan R. K. Ports.
Technical Report UW-CSE-16-09-02, University of Washington CSE. September 2016.
8. "Providing Stable Storage for the Diskless Crash-Recovery Failure Model."
Ellis Michael, Dan R. K. Ports, Naveen Kr. Sharma, and Adriana Szekeres.
Technical Report UW-CSE-16-08-02, University of Washington CSE. August 2016.
9. "Scaling Leader-Based Protocols for State Machine Replication."
Ellis Michael. Supervisor: Lorenzo Alvisi.
Undergraduate Honors Thesis, University of Texas at Austin. May 2015.

Work Experience

Google

Software Engineering Intern

- o Mentor: Sean Lip
- o Developed a full-text search module for Google's Course Builder, a Google App Engine application
- o Worked across the application's entire stack in CSS, HTML (with Jinja templating), Javascript, and Python

Mountain View

Summer 2013

IBM

Software Engineering Intern

- o Developed a tool to expedite the integration and build process for the Business Process Management (BPM) group using DB2, TeamCity, RTC, and BPM
- o Created RESTful APIs in Java

Austin

Summer 2012

Teaching Experience

Distributed Systems (CSE 452/M552), University of Washington

Teaching Assistant

Spring 2017

Foundations of Computing I (CSE 311), University of Washington

Tutor

Spring 2016, Fall 2016

Foundations of Computing II (CSE 312), University of Washington

Tutor

Winter 2016

Honors Research Methods (UGS 303), University of Texas at Austin

Undergraduate Teaching Assistant

Fall 2013, Fall 2014

Discrete Mathematics (M 325K), University of Texas at Austin

Grader

Spring 2013

Honors

Awards.....

- o UW CSE Industrial Affiliates Madrona Prize Runner-Up, 2016

Graduate Fellowships.....

- o NSF Graduate Research Fellowship, 2017
- o NSF Graduate Research Fellowship Honorable Mention, 2016
- o Jeff Dean - Heidi Hopper Endowed Regental Fellowship, 2015
- o Gary Kildall Endowed Fellowship, 2015

Undergraduate Honors Programs.....

- o Dean’s Scholars Honors Program
- o Turing Scholars Honors Program
- o Plan II Honors

Undergraduate Awards.....

- o Dean’s Honored Graduate, College of Natural Sciences
- o Distinguished College Scholar in the College of Natural Sciences, 2012–2014
- o College of Natural Science Book Award | Graduate Distributed Computing, *Fall 2013*

Undergraduate Scholarships.....

- o Frances Rather Seybold and Frances Randolph Rather Seybold Endowed Presidential Scholarship, 2014
- o Eva Stevenson Woods Endowed Presidential Scholarship, 2014
- o Michelle K. Brock and Sophia and G.W. Brock Endowed Presidential Scholarship, 2014 and 2013
- o Kevin E. Underhill Memorial Endowed Presidential Scholarship, 2014 and 2013
- o Chevron Scholar, 2014 and 2012
- o Ralph R. Nelson Endowed Presidential Scholarship, 2013
- o Bettie Johnson Halsell Endowed Presidential Scholarship in Liberal Arts, 2013
- o Renee Wolfe Zelman and Norman Zelman Endowed Scholarship, 2012
- o Joe P. Liberty Endowed Scholarship in Plan II, 2012
- o National Merit Scholar, 2011

Service

- o OSDI External Reviewer, 2018