

Jonathan Eyolfson

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Research Interests

Program analysis, programming languages, systems, and machine learning.

Education

University of Waterloo

Electrical and Computer Engineering
Thesis: "Enforcing Abstract Immutability"
Advisor: Patrick Lam

Ph.D.

2011 – 2018

University of Waterloo

Electrical and Computer Engineering
Thesis: "Tracerory - Dynamic Tracematches and Unread Memory Detection for C/C++"
Advisor: Patrick Lam

M.A.Sc.

2009 – 2011

Queen's University

Electrical and Computer Engineering

B.Sc. (Honours)

2005 – 2009

Academic Experience

University of California, Los Angeles

Computer Science
Advisor: Harry Xu

Postdoctoral Fellow

2018 – Present

Teaching Experience

University of California, Los Angeles

Computer Science
CS 111: Operating System Principles
Overall rating: 8.72/9

Lecturer

Fall 2021

University of California, Los Angeles

Computer Science
CS 111: Operating System Principles
Overall rating: 8.70/9

Lecturer

Summer 2021

University of California, Los Angeles

Computer Science
CS 111: Operating System Principles
Overall rating: 8.75/9

Lecturer

Spring 2021

University of Waterloo

Electrical and Computer Engineering
ECE 459: Programming for Performance
University-Level Award: Amit & Meena Chakma Award for Exceptional Teaching by a Student

Instructor

Winter 2012

Grants and Scholarships

NSERC (PGS D)

2013 – 2014

Ontario Graduate Scholarship

2010

Refereed Conference Publications

- [1] John Thorpe, Yifan Qiao, Jonathan Eyolfson, Shen Teng, Guanzhou Hu, Zhihao Jia, Jinliang Wei, Keval Vora, Ravi Netravali, Miryung Kim, and Guoqing Harry Xu. "Dorylus: Affordable, Scalable, and Accurate GNN Training with Distributed CPU Servers and Serverless Threads". In: *15th USENIX Symposium on Operating Systems Design and Implementation, OSDI*. 2021.
- [2] Jonathan Eyolfson and Patrick Lam. "How C++ Developers Use Immutability Declarations: an Empirical Study". In: *Proceedings of the 41st International Conference on Software Engineering, ICSE*. 2019.
- [3] Jonathan Eyolfson and Patrick Lam. "C++ const and Immutability: An Empirical Study of Writes-Through-const". In: *30th European Conference on Object-Oriented Programming, ECOOP*. 2016.
- [4] Jonathan Eyolfson and Patrick Lam. "Detecting Unread Memory Using Dynamic Binary Translation". In: *Runtime Verification, Third International Conference, RV*. 2012.
- [5] Jonathan Eyolfson, Lin Tan, and Patrick Lam. "Do Time of Day and Developer Experience Affect Commit Bugginess?" In: *Proceedings of the 8th International Working Conference on Mining Software Repositories, MSR*. 2011.

Journal Publications

- [6] Jonathan Eyolfson, Lin Tan, and Patrick Lam. "Correlations between Bugginess and Time-Based Commit Characteristics". In: *Empirical Software Engineering* 19.4 (2014).

Reviewing

Reviewer	<i>Transactions on Software Engineering</i> 2019
Artifact Evaluation Committee	<i>ECOOP</i> 2017 & 2018
Artifact Evaluation Committee	<i>OOPSLA</i> 2016 & 2017