

# Ming-Ho Yee

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## RESEARCH EXPERIENCE

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| <b>Research Assistant</b><br><i>Northeastern University</i> <ul style="list-style-type: none"><li>• Graduate studies supervised by Professor Jan Vitek</li><li>• Area: programming language design and implementation</li></ul>  | <b>Boston MA</b><br><i>Sep 2016 – present</i>    |
| <b>Research Assistant</b><br><i>University of Waterloo</i> <ul style="list-style-type: none"><li>• Graduate studies supervised by Professor Ondřej Lhoták</li><li>• Area: static program analysis, compilers, programming languages</li></ul>  | <b>Waterloo ON</b><br><i>Sep 2014 – Aug 2016</i> |
| <b>Capstone Design Project</b><br><i>University of Waterloo</i> <ul style="list-style-type: none"><li>• Course work in a team of four undergraduate students, supervised by Professor Derek Rayside</li><li>• Project: <a href="#">designing, implementing, and evaluating improvements for the guided improvement algorithm</a></li></ul> | <b>Waterloo ON</b><br><i>Sep 2012 – Apr 2014</i> |
| <b>Undergraduate Research Assistant</b><br><i>University of Waterloo</i>   | <b>Waterloo ON</b><br><i>Sep – Dec 2012</i>      |
| <b>Research Assistant and Developer</b><br><i>University of Waterloo</i>   | <b>Waterloo ON</b><br><i>May – Aug 2012</i>      |

## WORK EXPERIENCE

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|---|--|
| <b>Software Development Engineering Intern</b><br><i>Microsoft</i> <ul style="list-style-type: none"><li>• Implemented a partial prototype of concepts lite in the Visual C++ compiler</li></ul>  | <b>Redmond WA</b><br><i>May – Jul 2014</i> |
| <b>Software Development Engineering Intern</b><br><i>Microsoft</i> <ul style="list-style-type: none"><li>• Implemented user-defined literals for the Visual C++ compiler</li></ul>  | <b>Redmond WA</b><br><i>Sep – Dec 2013</i> |
| <b>Software Development Engineering Intern</b><br><i>Microsoft</i> <ul style="list-style-type: none"><li>• Prototyped, developed, and evaluated a heap memory collection tool for .NET applications</li></ul>   | <b>Redmond WA</b><br><i>Jan – Apr 2013</i> |
| <b>Developer</b><br><i>Engagio (formerly Eqentia)</i> <ul style="list-style-type: none"><li>• Along with a senior developer, designed, built, and launched <a href="#">Engagio</a>, “the universal commenting inbox”</li><li>• Optimized the background task queuing system to dynamically prioritize fetch tasks</li></ul>                             | <b>Toronto ON</b><br><i>Sep – Dec 2011</i> |
| <b>Developer</b><br><i>Eqentia</i> <ul style="list-style-type: none"><li>• Designed and implemented a feature for users to add content by sending emails</li><li>• Co-led the implementation of the new front-end interface redesign</li></ul>  | <b>Toronto ON</b><br><i>Jan – Apr 2011</i> |
| <b>Software Development Research Intern</b><br><i>Genesys Telecommunications Laboratories</i> <ul style="list-style-type: none"><li>• Developed a proof-of-concept speech analytics application to improve customer experience at call centres</li></ul>  | <b>Markham ON</b><br><i>May – Aug 2010</i> |
| <b>Junior Developer</b><br><i>Robarts Research Institute</i> <ul style="list-style-type: none"><li>• Implemented a new module for pre-existing data analysis software, using IDL (Interactive Data Language)</li><li>• <a href="#">Examined MRI spectroscopy data with the new module to research drug treatments for Alzheimer’s Disease</a></li></ul> | <b>London ON</b><br><i>Jul – Aug 2008</i>  |

## PUBLICATIONS

- M. Madsen, M.-H. Yee, O. Lhoták, [From Datalog to Flix: A Declarative Language for Fixed Points on Lattices](#), **PLDI 2016**, Jun 2016
- M. Safa, M.-H. Yee, D. Rayside, C. T. Haas, [Optimizing Contractor Selection for Construction Packages in Capital Projects](#), **ASCE J. Comput. Civ. Eng.**, Jan 2016
- E. Zulkoski, C. Kleynhans, M.-H. Yee, D. Rayside, K. Czarnecki, [Optimizing Alloy for Multi-objective Software Product Line Configuration](#), **ABZ 2014**, Jun 2014

## TECHNICAL SKILLS

- Experienced with C, C++, Scala, Java, and Ruby
- Familiar with C#, Perl, x86 and MIPS assembly, and JVM bytecode
- Some knowledge of Racket, OCaml, Haskell, ARM assembly, and LLVM IR
- Comfortable with Linux, OS X, and Windows environments

## TEACHING EXPERIENCE

### Teaching Assistant

*University of Waterloo*

- [CS 444: Compiler Construction](#) (Winter 2016)
- [CS 241E: Foundations of Sequential Programs, Enriched](#) (Fall 2015)
- [CS 241: Foundations of Sequential Programs](#) (Spring 2015, Spring 2016)

**Waterloo ON**

*May 2015 – Aug 2016*

## ACTIVITIES

- Past student representative on the Software Engineering Curriculum Committee
- Past academic representative for the Software Engineering Class of 2014
- Member, tournament director, and past president for the Quizbowl Club

## AWARDS

- NSERC Postgraduate Scholarship - Doctoral *2016 – 2019*
- Graduate Fellowship *2016 – 2017*
- NSERC Canada Graduate Scholarship - Master's *2015 – 2016*
- President's Graduate Scholarship (x2) *2014 – 2015, 2015 – 2016*
- Ontario Graduate Scholarship *2014 – 2015*
- NSERC Canada Graduate Scholarship - Master's (declined) *2014*
- Ontario Professional Engineers Foundation Medal for Academic Achievement *Jun 2014*
- Software Engineering Capstone Design Project Symposium, First Place *Mar 2014*
- NSERC Undergraduate Student Research Award *May – Aug 2012*
- President's Research Award *May – Aug 2012*
- Scotiabank Software Engineering Entrance Scholarship *2009 – 2014*

## EDUCATION

### Ph.D. Student

*Northeastern University*

**Boston MA**

*Sep 2016 – present*

### Candidate for Master of Mathematics in Computer Science

*University of Waterloo*

**Waterloo ON**

*Jun 2017 (expected)*

- Thesis: [Implementing a Functional Language for Flix](#) (completed Sep 2016)

### Bachelor of Software Engineering

*University of Waterloo*

**Waterloo ON**

*Jun 2014*

- With Distinction – Dean's Honours List