Student Project Supervision

Projects at the University of Waterloo

The MASc program is a 24 month, full-time research degree. The student works on a research project and finishes with a thesis. Funding is provided by the supervisor(s).

Undergraduate Research Assistantship (URA) undergraduates work about 6-8 hours/week for a term on a research project. Undergraduate Student Research Award (USRA) and Undergraduate Research Internship (URI) undergraduates work full-time for a term on a research project.

Current Students


[UWatC6] Florian Lanzinger. Property Type Systems. Visiting PhD student (September to November 2022); PhD student at KIT, supervised by Mattias Ulbrich; previously MASc student, co-advised with Mattias Ulbrich, KIT (May 2020 to February 2021). May 2020.


Graduate Students


Nahid Juma. Complexity Analysis of Tunable Static Inference For Generic Universe Types. MASc student (started July 2014); co-supervised with Mahesh V. Tripunitara. August 2015.

Undergraduate Students


<table>
<thead>
<tr>
<th>Reference</th>
<th>Name</th>
<th>Project Description</th>
<th>Student Type</th>
<th>Start Date</th>
<th>End Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>[UWatU22]</td>
<td>Shiji Liu</td>
<td>Checker Framework IDE Integration</td>
<td>Spring 2020 URA student</td>
<td>May 2020</td>
<td>August 2020</td>
</tr>
<tr>
<td>[UWatU29]</td>
<td>Jerry Huang</td>
<td>Checker Framework Inference Web Demo</td>
<td>Fall 2018 URA student</td>
<td>September 2018</td>
<td>December 2018</td>
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<tr>
<td>[UWatU30]</td>
<td>Sunjay Varma</td>
<td>Gauss-Jordan Constraint Solver</td>
<td>Fall 2018 URA student</td>
<td>September 2018</td>
<td>December 2018</td>
</tr>
<tr>
<td>[UWatU31]</td>
<td>Yiren Zhou</td>
<td>Checker Framework Atom Integration</td>
<td>Fall 2018 URA student</td>
<td>September 2018</td>
<td>December 2018</td>
</tr>
<tr>
<td>[UWatU32]</td>
<td>Adam Yifan Yang</td>
<td>Checker Framework LSP Integration</td>
<td>Spring 2018 URA student</td>
<td>May 2018</td>
<td>August 2018</td>
</tr>
<tr>
<td>[UWatU33]</td>
<td>Amanda Yuxin Jiang</td>
<td>Checker Framework VSCode Integration</td>
<td>Winter 2018 URA student</td>
<td>January 2018</td>
<td>April 2018</td>
</tr>
<tr>
<td>[UWatU34]</td>
<td>Haaris Ahmed</td>
<td>Checker Framework IDE Integration</td>
<td>Fall 2017 URA student</td>
<td>September 2017</td>
<td>December 2017</td>
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<tr>
<td>[UWatU37]</td>
<td>Andy Chang Ho Lee</td>
<td>Investigate a new Pluggable Type System</td>
<td>Fall 2016 URA student</td>
<td>September 2016</td>
<td>December 2016</td>
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<tr>
<td>[UWatU38]</td>
<td>Fernando Peña</td>
<td>Checker Framework Rise4Fun Integration</td>
<td>Fall 2016 URA student</td>
<td>September 2016</td>
<td>December 2016</td>
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<tr>
<td>[UWatU41]</td>
<td>Steven Jia</td>
<td>Checker Framework IntelliJ Integration</td>
<td>Fall 2016 URA student</td>
<td>September 2016</td>
<td>December 2016</td>
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</table>


Other Projects

Yuyan Bao. Type systems for Program Verification. Post-Doctoral researcher (started January 2021); co-supervised with Arie Gurfinkel. Now an Assistant Professor at Augusta University. December 2022.


Aditya Singh. General Tainting Checker. Spring 2020 GSoC student (started May 2020). Google Summer of Code (GSoC) is a competitive intern funding program from Google. Dr. Dietl is one of the GSoC organizers for the Checker Framework project and is the GSoC advisor for Mr. Singh. September 2020.


Ayush Agarwal. Android Support Annotations. Spring 2019 GSoC student (started April 2019). Google Summer of Code (GSoC) is a competitive intern funding program from Google. Dr. Dietl is one of the GSoC organizers for the Checker Framework project and was the GSoC advisor for Mr. Agarwal. August 2019.

Ravi Roshan. Checker Framework Java 9 support. Spring 2018 GSoC student (started April 2018). Google Summer of Code (GSoC) is a competitive intern funding program from Google. Dr. Dietl is one of the GSoC organizers for the Checker Framework project and was the GSoC advisor for Mr. Roshan. August 2018.

Shinya Yoshida. Control Flow Graph Enhancements. Spring 2017 GSoC student (started April 2017). Google Summer of Code (GSoC) is a competitive intern funding program from Google. Dr. Dietl is one of the GSoC organizers for the Checker Framework project and was the GSoC advisor for Mr. Yoshida. August 2017.

External PhD Thesis Reader

1. Paley Li, March 2015, Victoria University of Wellington

PhD Defense Committee Member

1. Hari Govind Vediramana Krishnan, June 2024, ECE, University of Waterloo
2. Parsa Pourali, January 2020, ECE, University of Waterloo
3. Marianna Rapopourt, November 2019, CS, University of Waterloo
4. Aaron Moss, April 2019, CS, University of Waterloo
5. Jonathan Eyolfson, April 2018, ECE, University of Waterloo
6. Pansy Arafa, May 2017, ECE, University of Waterloo
7. Karim Ali, September 2014, CS, University of Waterloo

PhD Comprehensive Exam Committee Member
1. Yusen Su, December 2022, ECE, University of Waterloo
2. Yiwen Dong, December 2021, CS, University of Waterloo
3. Hari Govind Vediramana Krishnan, November 2021, ECE, University of Waterloo
4. Parsa Pourali, April 2017, ECE, University of Waterloo
5. Pansy Arafa, June 2015, ECE, University of Waterloo
6. Jean-Christophe Petkovich, July 2014, ECE, University of Waterloo
7. Jonathan Rodriguez, July 2014, CS, University of Waterloo
8. Jonathan Eyolfson, May 2014, ECE, University of Waterloo

PhD Background Exam Committee Member
1. Hetong Dai, June 2024, ECE, University of Waterloo
2. Yuanjie Xia, May 2024, ECE, University of Waterloo
3. Joseph Tafese, April 2024, ECE, University of Waterloo
4. Siddharth Priya, December 2022, ECE, University of Waterloo
5. Indrani Ray, December 2022, ECE, University of Waterloo
6. Yusen Su, August 2021, ECE, University of Waterloo
7. Hari Govind Vediramana Krishnan, August 2020, ECE, University of Waterloo

Master Thesis Reader
1. Yekta Demirci, January 2022, MASc, ECE, University of Waterloo
2. Tejvinder Singh Toor, January 2022, MASc, ECE, University of Waterloo
3. Rahul Punchhi, August 2021, MASc, ECE, University of Waterloo
4. Yangtian Zi, August 2021, MMath, CS, University of Waterloo
5. Siddharth Priya, August 2021, MASc, ECE, University of Waterloo
6. Boyun Zhang, December 2020, MASc, ECE, University of Waterloo
7. Jakub Kuderski, August 2019, MASc, ECE, University of Waterloo
8. Alex Norton, August 2019, MMath, CS, University of Waterloo
9. Ming-Ho Yee, September 2016, MMath, CS, University of Waterloo
10. Michael Chong, July 2016, MASc, ECE, University of Waterloo
11. Taiyue Liu, July 2016, MASc, ECE, University of Waterloo
12. Omar Alghamdi, November 2015, MASc, ECE, University of Waterloo
13. Aymen Ketata, September 2015, MASc, ECE, University of Waterloo
14. Neeraj Kumar, July 2015, MMath, CS, University of Waterloo
15. Zhuoran Yin, April 2015, MASc, ECE, University of Waterloo
16. Matthew Ma, July 2014, MASc, ECE, University of Waterloo
17. Marianna Rapoport, July 2014, MMath, CS, University of Waterloo

ECE 499 Final Project Report Reader
1. Chuhan Xiang, Winter 2024

Fourth Year Design Project Supervision at the University of Waterloo
2. “PhysioConnect”, Spring 2022, Winter 2023

Projects at the University of Washington

[UWash12] Stephanie Dietzel. Interning type checker case studies; verification games: KeyFor integration; testing framework. Undergraduate and Master’s research (started July 2011). Now at Tableau Software. April 2013.


Master’s projects at ETH Zurich

Master’s projects are six month full-time projects.


Semester projects at ETH Zurich

Semester projects have a workload of around 160 hours.


