

Mark Armstrong

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| github | github.com/armkeh |
| gitlab | gitlab.cas.mcmaster.ca/armstmp |

Education

Ph.D. in Computer Science McMaster University, Sept 2015 - Present

- Mechanising models of computability theory.
- 3rd place in 2019 Computing and Software poster competition.
- GPA: 11.75 on 12 point scale.

M.Sc. in Computer Science McMaster University, Sept 2013 - Sept 2015

- Investigated results from classical computability theory in the context of computability over the real numbers.
- GPA: 11.75 on 12 point scale. Graduated with distinction.

B.A.Sc. in Computer Science McMaster University, Sept 2008 - April 2013

- Research projects:
 - Summer 2010: on (theoretical) models of concurrency with Dr. Ryszard Janicki.
 - Summer 2013: on mechanising mathematical knowledge with Dr. Jacques Carette.
- GPA: 11.1 on 12 point scale. Graduated with distinction. On Dean's Honour List in every year.

Employment

Sessional faculty McMaster University, 2013 - Dec 2019

- 4 appointments for Computer Science 3MI3, "Principles of Programming Languages".
- Planned and prepared lecture materials and assignments/tests including both written and programming evaluations.
- Supervised teaching assistants.

Teaching assistant McMaster University, 2013 - Dec 2019

- 13 appointments, primarily to courses on programming language theory and discrete mathematics.
- Prepared and led tutorial sessions and office hours, marked student work.
- In some cases, appointed to supervise other teaching assistants.

Research assistant McMaster University, Summers 2010 and 2012

- Independently carried out research on topics selected by supervising professors.

Embedded Systems Test Developer, Intern Blackberry, May 2011 - Aug 2012

- Developed automated tests and testing systems for the GPS system of the BB10 operating system.



Skills

Programming

- Expert
Agda,
Emacs lisp
- Experienced
C, C++
- Familiar
Python,
Ruby,
Haskell

Other soft- ware

Emacs, Org mode,
L^AT_EX

Soft skills

Publications

- Armstrong, Mark & Zucker, Jeffery, Notions of semicomputability in topological algebras over the reals, Computability, vol. 8, no. 1, pp. 1-26, 2019

Awards

Graduate studies scholarships and fellowships

| Name | Years held | Value |
|--|-------------|------------------------|
| NSERC Postgraduate Scholarship, Doctoral | 2017 - 2019 | \$42,000 |
| Ontario Graduate Fellowship | 2016 - 2017 | \$12,000 |
| Dean’s Excellence Engineering Doctoral Award | 2015 - 2018 | \$127,500 ¹ |
| NSERC Canadian Graduate Scholarship, Masters | 2014 - 2015 | \$17,500 |
| Ontario Graduate Scholarship | 2013 - 2014 | \$15,000 |

1. Included guaranteed teaching assistant employment income for those years.

Other

| Name | Date | Value | Description |
|------------------------------------|------|--------|--|
| Gerald L. Keech Medal | 2013 | — | For highest graduating GPA in program that year. |
| Ruth and Jack Hall Prize | 2011 | \$225 | For highest 3 rd year GPA in program. |
| Dr. Harry Lyman Hooker Scholarship | 2011 | \$1500 | For academic excellence. |
| Createch Scholarship | 2010 | \$1000 | For highest 2 nd year GPA in program. |
| Nortel Networks Scholarship | 2009 | \$1000 | For academic excellence. |
| McMaster entry scholarship | 2008 | \$2000 | |

Extracurricular

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