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# Ali Assaf

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## EDUCATION

**PhD in Computer Science** - Ecole Polytechnique, Palaiseau

OCT 2012 - SEP 2015

Subject: Interoperability of Proof Systems

Supervisors: Gilles Dowek, Guillaume Burel

**Masters in Computer Science** - Ecole Polytechnique, Palaiseau

SEP 2010 - AUG 2012

**B. Sc. Honours Mathematics and Computer Science** - McGill University, Montreal

SEP 2006 - APR 2010

Minor in Physics

## EXPERIENCE

**Software Engineer** - Google, Zurich

OCT 2015 - PRESENT

**Research Intern** - Inria, Paris

MAR 2012 - AUG 2012

Translated HOL Light proofs into Dedukti, a universal proof system based on a lambda calculus with dependent types and rewriting.

<http://dedukti.gforge.inria.fr/>

**Research Intern** - LIG, Grenoble

APR 2011 - JUN 2011

Analyzed CPS simulations for algebraic extensions of the lambda calculus.

**Software Engineer Intern** - Facebook, Palo Alto

JUN 2010 - AUG 2010

Optimized a build system for static resources in PHP.

**Undergraduate Research Assistant** - McGill University, Montreal

MAY 2009 - JUL 2009

Designed part of the operational semantics for Beluga, a functional programming language with dependent types.

<http://www.cs.mcgill.ca/~complogic/beluga/>

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## TEACHING

**Teaching Assistant** - Ecole Polytechnique, Palaiseau

Oct 2013 - Sep 2015

Fundamentals of Programming and Algorithms (x2)

Algorithms and Programming (x2)

**Teaching Assistant** - McGill University, Montreal

Jan 2010 - Apr 2010

Programming Languages and Paradigms

## AWARDS

**Fundraising Excellence fellowship** - Ecole Polytechnique Foundation, Paris

SEP 2010 - AUG 2012

**Dean's Honour list, Faculty of Science** - McGill University

2010

**CRA Outstanding Undergraduate Researchers Award** - McGill University, Montreal

2010

Honorable Mention

**Herbert J. Brennen scholarship** - McGill University, Montreal

SEP 2009 - AUG 2010

## LANGUAGES

English, French, Arabic (all fluent in speaking and writing)

## TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python, OCaml, Coq

Operating Systems: Linux, Windows

## OTHER INTERESTS

Programming Competitions: Google Code Jam, ACM ICPC (McGill team)

Music, piano

Gaming, e-sports