

# Angus Leigh

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<http://www.cs.mcgill.ca/~aleigh1>

## EDUCATION

### McGill University

MSc Candidate in Computer Science

*Specializing in machine learning, robotics and computer vision*

*Sept 2013–August 2015 (expected)*

*Montreal, QC*

### University of Waterloo

BASc with Distinction in Systems Design Engineering

*German minor. Cumulative GPA: 87%*

*2008–2013*

*Waterloo, ON*

### Technische Universität Braunschweig

Study Abroad Semester

*Completed full engineering course load in foreign language*

*Fall 2011–Spring 2012*

*Braunschweig, Germany*

## EXPERIENCE

### Reasoning & Learning Lab, Research Assistant, McGill University

*2013–present*

*Current project:* Vision-based robot localization using deep learning

*Completed project:* Autonomous person tracking and following with 2D laser scanners

### Teaching Assistant, McGill University, Montreal

COMP-424: Artificial Intelligence

*Winter 2015*

COMP-598: Applied Machine Learning

*Fall 2014*

### Siemens R&D, Robotics Eng. Student Developer, Munich, Germany

*Summer 2012*

Developed a simulated robotic model of an electric car in C++ and ROS

### Durridge Co., Systems Design Eng. Student, Billerica, MA, USA

*Winter 2011*

Firmware (C) and electrical design (EAGLE) of a novel Radon-detection device

### Vision & Image Processing Lab, Undergrad. Research Assistant, Waterloo

*Fall 2010*

### Automation Engineering Assoc., Design Eng. Student, Toronto

*Summer 2010*

### Human Resources Canada, .NET Programmer, Ottawa

*Fall 2009*

### Hatch Ltd., Engineering Assistant, Mississauga

*Winter 2009*

## PROJECTS

### Stochastic pooling for convolutional neural networks (Graduate class project) 2014

Implemented a convolutional neural network and benchmarked modern pooling functions

### Autonomous quadrotors (Undergraduate Final Year Design Project)

*2013*

Designed an autonomous object-following quadrotor. Computer vision, gimbal visual servoing, electrical and hardware integration and rotor control in C++ and OpenCV

More projects at <https://www.github.com/angusleigh>

## PUBLICATIONS

**A. Leigh**, J. Pineau, N. Olmedo and H. Zhang, “Person Tracking and Following with 2D Laser Scanners”, *Accepted to the International Conference on Robotics and Automation (ICRA)*, Seattle, Washington, USA, 2015.

**A. Leigh**, A. Wong, D. A. Clausi and P. Fieguth, “Comprehensive analysis on the effects of noise estimation strategies on image noise artifact suppression performance”, *IEEE International Symposium of Multimedia*, Dana Point, California, USA, 2011.

## AWARDS

NSERC Master’s Canada Graduate Scholarship (\$17500)

*2013*

Best design project of 4th year engineering class (\$500)

*2013*

## TECH SKILLS

C/C++, Python, ROS, OpenCV, MATLAB, Linux, Git

## LANGUAGES

English (native), German (fluent), French (intermediate)