

# Alexander William Wong

University of Alberta  
Faculty of Science – Computing Science  
2-59B2 Computing Science Centre  
Edmonton, AB T6G 2S4

Phone: +1 780-492-2285  
Email: alex.wong@ualberta.ca  
Homepage: <https://www.udia.ca>

## Education

M.Sc. Computing Science Sep 2018 to Current  
University of Alberta Edmonton, Alberta, Canada  
Supervisors: Dr. Abram Hindle, Dr. Nilanjan Ray

B.Sc. w/ Specialization in Computing Science - Software Practice Sep 2010 to Jun 2016  
University of Alberta Edmonton, Alberta, Canada

## Work Experience

Graduate Teaching/Research Assistant Sep 2018 to Current  
University of Alberta Edmonton, Alberta, Canada  
TA for Fall 2018 CMPUT 174 (Introduction to the Foundations of Computation I) and Winter 2019 CMPUT 404 (Web Based Information Systems). Created in-depth lab materials and instructed lab sessions.

Software Development Contractor Nov 2017 to Jul 2018  
EPCOR Utilities Incorporated Edmonton, Alberta, Canada  
Nine month contract for DevOps team. Completed outstanding issues and deployed public facing Interactive Voice Response (IVR) integration with Schneider SCADA product for grid outage notifications.

Software Developer Jan 2017 to Jun 2017  
Go Auto Corporate Edmonton, Alberta, Canada  
Built web applications for Go Auto dealerships across Canada for inventory, contract, and sales management. Built programmatic text and call features for interactive advertisements and user targeted sales.

Software Development Contractor Dec 2016 to May 2017  
Telus Corporation Edmonton, Alberta, Canada  
Six month contract for internal networking team. Hardened internal web services with authentication modules and SSL. Wrote Netconf/YANG parsing middleware for converting hardware signals for API use.

Course Developer Jun 2016 to Aug 2016  
University of Alberta Edmonton, Alberta, Canada  
Created course materials for Fall 2016 CMPUT 396 (Topics in Computer Science: Games, Puzzles, and Algorithms). Built solvers and interactive puzzles (mazes, peg solitaire, sliding tile, chess, Go, and Hex).

Software Development Contractor Mar 2016 to Aug 2016  
Telus Corporation Edmonton, Alberta, Canada  
Six month contract for OptikTV operations team. Created interactive dashboards for diagnostics and visualizing OptikTV system health. Integrated with Splunk for additional analytics and data processing.

Undergraduate Teaching Assistant Jan 2016 to Apr 2016  
University of Alberta Edmonton, Alberta, Canada  
TA for Winter 2016 CMPUT 404 (Web Based Information Systems). Designed lab material for learning web system fundamentals and building practical applications. Led lab sessions and graded submissions.

Software Developer Intern May 2014 to Aug 2015  
Pason Systems Corporation Calgary, Alberta, Canada  
Sixteen month specialization industrial internship requirement. Supported development work for oil and gas drilling technology. Contributed to measuring rig device usage to enable "pay per use" billing feature.

## Publications

### Journal Papers

J1 "Nutritional quality and price of food hampers distributed by a campus food bank: a Canadian experience.", Mahsa Jessri, Arvin Abedi, Alexander Wong, Ghazaleh Eslamian.  
Journal of Health, Population, and Nutrition, 2014 Jun; 32(2): 287–300. Researcher/Co-Author

### Conference Papers

C2 "Syntax and Stack Overflow: A methodology for extracting a corpus of syntax errors and fixes",  
Alexander William Wong, Amir Salimi, Shaiful Chowdhury, Abram Hindle.  
International Conference on Software Maintenance and Evolution (ICSME 2019), Primary Author  
2019

C1 "What do developers know about machine learning: a study of ML discussions on StackOverflow",  
Hareem Sahar, Abdul Ali Bangash, Alexander William Wong, Shaiful Chowdhury, Abram Hindle,  
Karim Ali.  
International Conference on Mining Software Repositories (MSR 2019), 2019 Researcher/Co-Author

### Posters

P1 "Syntax and Stack Overflow: A methodology for source code error and fix extraction"  
Reverse EXPO, 2019, University of Alberta, Edmonton, Canada Author

### Presentations and Lectures

T3 "Computer Vision: A Practical Introduction to Machine Learning"  
Go Auto Corporate, Jul 19 2019, Edmonton, Canada Invited Presenter

T2 "INSYN: Recommendation Models for Syntactically Incorrect Source Code"  
ATB Financial, Jan 31 2019, Edmonton, Canada Invited Presenter

T1 "Introduction to Generative Adversarial Networks"  
Edmonton Python User Group, Sep 11 2017, Edmonton, Canada Volunteer Presenter

### Awards and Grants

T2 "Alberta Excellence Graduate Scholarship"  
Government of Alberta, 2019 \$12,000 Scholarship

T1 "MSc. Early Achievement Runner Up"  
University of Alberta, 2019

Award