

LIU CHEN LU

HIGHLIGHTS Have implemented sizable projects in [C](#), [C++](#), [Python](#), [Bash script](#), and [Maple](#)
Experienced with [Haskell](#), [Scheme](#), [MATLAB](#), [XML](#)
Enthusiastic public speaker; able to program in teams and individually
Tools experience: [Visual Studio](#), [Cygwin](#), [Vim](#), [Command Line](#), [Microsoft Office](#)
Interests: machine learning, artificial intelligence, optimization, mathematics

EDUCATION **BACHELOR OF COMPUTER SCIENCE, UNIVERSITY OF WATERLOO** **SEPT 2011-AUG 2016**
3.90 GPA equivalent; Dean's Honour List
BACHELOR OF BUSINESS ADMINISTRATION (CO-OP), WILFRID LAURIER UNIVERSITY
3.84 GPA equivalent; Dean's Honour List **SEPT 2011-AUG 2016**

TECHNICAL EXPERIENCE **SOFTWARE INTERN AT USER MODEL, GOOGLE INC** JAN 2014 – APR 2014
MATH DEVELOPER AT MAPLESOFT JAN 2013 – APR 2013

- Designed and implemented the Maple Student Statistics package
 - E.g. implemented an interface that enables students to explore the effect of varying each input parameter on statistical properties in arbitrary distributions
- Applied programming's best practices with version control, code reviews, unit testing, and standard documentation; worked in a large, complex development environment

UNDERGRADUATE RESEARCH ASSISTANT AT CENTRE FOR PATTERN ANALYSIS AND MACHINE INTELLIGENCE SEPT 2012 – JAN 2013

- Independently reviewed academic papers on various protein SVM string kernels for comparison against supervisor's categorization method
- Sought out and debugged code (in *C++*, *Python*, *MATLAB*) from other research projects to verify the runtime and accuracies stated in their research papers
- Modified Shogun's DNA string kernels to build a Python interface for protein analysis

PERSONAL PROJECTS

- Functional evolutionary Boids simulating emergent behaviour, *Haskell*
- Context free parsing applied to the English language via the CYK algorithm, *Python*
- WLPP (subset of C++) to MIPS compiler, *C++*
- Scheduler using bipartite matching, *Haskell*
- Automated testing suite, *Bash script*

Github: <https://github.com/LiuChenLu>
Website: <http://www.lclu.ca>

AWARDS

- The Google Anita Borg Memorial Scholarship, 2013
- Winning team in 24Hours of Good Hackathon at Google Scholars Retreat, 2013
- Google Challenge Award, 2011
- Semi-finalist team in New Venture Business Competition, 2011
- President's Centennial Award and Centennial Scholarship (WLU), 2011