

Paul Liu

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EDUCATION	<i>Bachelor of Science</i> , Honours Mathematics and Physics University of British Columbia, Vancouver, BC, expected May 2014
SKILLS	<i>Languages:</i> C++, Python, Matlab, Java, Mathematica <i>Operating Systems:</i> Windows, GNU/Linux
EXPERIENCE	<i>ScienceOne Teaching Assistant (Fall 2012 - Present)</i> ScienceOne Programme, UBC <ul style="list-style-type: none">• Currently the mathematics TA for ScienceOne. I am responsible for grading homeworks in addition to holding review sessions every week. <i>NSERC Research Assistantship (Summer 2012 - Present)</i> Scientific Computing Lab, UBC <ul style="list-style-type: none">• Working with Prof. Chen Greif (UBC), I created a C++ software package for performing incomplete factorizations of symmetric indefinite matrices. Currently we are trying to extend the package to handle skew-symmetric matrices. The complete source code, as well as extensive documentation can be found at https://github.com/inutard/matrix-factor. <i>Science One Module Design (Summer 2012)</i> Mathematics Department, UBC <ul style="list-style-type: none">• Working with Prof. Fok-Shuen Leung (UBC), I was part of a group of students that helped create a new math curriculum for Science One. Science One is a rigorous first year programme that combines Math, Physics, Chemistry, and Biology into a single yearlong course. <i>Science One Research Project (Spring 2011)</i> Science One Programme, UBC <ul style="list-style-type: none">• Partnered research project which culminated in a paper published to the UBC cIRcle Repository.
CONTESTS	ACM-ICPC Programming Contest World Finals (2013) - Results pending U. Chicago Invitational Programming Contest (2013) - Bronze Medal International University Physics Competition (2012) - Bronze Medal ACM-ICPC Programming Contest (2012) - 3rd in Pacific NW Region ACM-ICPC Programming Contest (2011) - 17th in Pacific NW Region Google AI Contest (2011) - 7th in Canada IT-BHU Codefest Mathmania Contest (2010) - Top 15
HONOURS	W.H. MacInnes Scholarship (2012) - Highest standing in Math/Physics Trek Excellence Scholarship (2011, 2012) - Top 5% in year of study President's Entrance Scholarship (2010) BC Provincial Examination Scholarship (2010) - Top 20 in Province
EXTRA-CURRICULAR	<i>Computer Science</i> <ul style="list-style-type: none">• UBC ACM Team (2011 - Present) <i>Mathematics</i> <ul style="list-style-type: none">• UBC Math Circle Organizer (2012 - Present) <i>Sports</i> <ul style="list-style-type: none">• Sponsorship by DC Badminton (2012 - present)• Line judge for international badminton competitions - Canada Open, World Senior Badminton Championships, etc. (2008 - Present)