Paul Liu

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EDUCATION

Bachelor of Science, Honours Mathematics and Physics
University of British Columbia, Vancouver, BC, expected May 2014

SKILLS

Languages: C++, Python, Matlab, Java, Mathematica
Operating Systems: Windows, GNU/Linux

EXPERIENCE

ScienceOne Teaching Assistant (Fall 2012 - Present)
ScienceOne Programme, UBC
- Currently the mathematics TA for ScienceOne. I am responsible for grading homeworks in addition to holding review sessions every week.

NSERC Research Assistantship (Summer 2012 - Present)
Scientific Computing Lab, UBC
- 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*.

Science One Module Design (Summer 2012)
Mathematics Department, UBC
- 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 rigourous first year programme that combines Math, Physics, Chemistry, and Biology into a single yearlong course.

Science One Research Project (Spring 2011)
Science One Programme, UBC
- Partnered research project which culminated in a paper published to the UBC cIRcle Repository.

CONTESTS

ACM-ICPC Programming Contest World Finals (2013) - Results pending
International University Physics Competition (2012) - Bronze Medal (81 teams)
ACM-ICPC Programming Contest (2012) - 3rd in Pacific NW Region (111 teams)
ACM-ICPC Programming Contest (2011) - 17th in Pacific NW Region (95 teams)
Google AI Contest (2011) - 7th in Canada (120 out of 8000 globally)
IT-BHU Codefest Mathmania Contest (2010) - Top 15 (250+ participants)
Athena Programming Contest (2010) - Top 100 (3000+ participants)

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

Computer Science
- UBC ACM Team (2011 - Present)

Mathematics
- UBC Math Circle Organizer (2012 - Present)

Sports
- Sponsorship by DC Badminton (2012 - present)
- Line judge for international badminton competitions - Canada Open, World Senior Badminton Championships, etc. (2008 - Present)
- High school and recreational badminton team - Starting lineup, 8th team in province, 1st in city