XUAN (TAPPY) HE

Qualifications Summary

- Genuine, optimistic, and hardworking. Praised by many associate teachers as a talented teacher candidate that explains things crisp clear and concise, with excellent classroom management skills.
- Open-minded, creative thinker with humility and curiosity to learn. Prolific in multi-tasking as a result of taking on multiple leadership roles in student government, while balancing extracurricular activities and school work.
- Well-rounded in extracurricular activities and interests– cellist and violinist, avid skier and competitive badminton player, traditional and digital art, graphic designer and yearbook editor. Has experience working with robotics and digital hardware.
- Ambitious achiever—Double Honors in pure mathematics and computer science at the University of Waterloo.

Education

September 2009 – April 2015
University of Waterloo, Waterloo, ON
Queen's University, Kingston, ON (Sept.2012-Apr.2013)
Candidate for **Honours Bachelor of Mathematics** and **Bachelor of Education**

Teaching Experience

January 2015 – present
Instructional Assistant – CS136 Elementary Algorithms and Data Abstraction
David R. Cheriton School of Computer Science, University of Waterloo, ON
- Working as a full-time instructional (teaching and support) assistant for the 2nd major course in computer science with 800 undergraduate computer science students
- Prepares course material and teaches weekly tutorials, holds office hours and lab hours, and provides online instruction and homework help for students over teaching forum Piazza.com
- In charge of course website updates and maintenance and works on an online IDE for compiling C and Dr.Racket code – Seashell. Tools used include JavaScript, Html/CSS Libraries, PHP backend

January 2014 – April 2014
Associate Faculty
Trinity College School, Port Hope, ON
- Instructor for grade 11, grade 12 AP computer science, grade 11 math, and Canadian Mathematics and Computing Competitions. Created and taught full lessons in contest problem solving, recursion, sorting algorithms, and Object Oriented Programming in Java
- Provided extensive design, testing and debugging feedback for students' Java database project
- Widely immersed in school life, energetically worked until 10pm almost every day in math help sessions, string ensemble, and hosting math tutorials for struggling students.

Sept. 2012 - June 2013
Student Teacher (Practicum)
Kitchener Collegiate Institute, Kitchener, ON
- Conducted 3 practicum terms at KCI, 2 in mathematics, 1 in computer science (communication technology).
- Worked with students in mathematics in the grade 10 essential/work place level, grade 11 academic, grade 9 academic, and grade 10 computer science receiving outstanding reviews from all 3 associate teachers—knowledgeable, patient, enthusiastic and explains concepts very well.
- Prepared lesson plans, created challenging problems as well as performed various assessments such as projects, peer evaluation and tests

March 2013
Student Teacher (Practicum)
Atlanta International School, Atlanta, Georgia, USA
- A 3 week life-changing experience at an international school located in the beautiful city of Atlanta that runs from primary school up to the full IB Diploma (grade 12)
- Observed a large variety of classes including digital design, physics, chemistry, mathematics, ESL, languages, middle school (MYP curriculum under the IB)
- Worked on instructional material for the grade 9 digital design Arduino circuit project, provided sample code and circuit designs. Taught Chinese classes and grade 12 Higher Level mathematics in the advanced topics section—Group Theory.

Jan 2012-May 2012
Math Circles Instructor
Center for Education in Mathematics and Computing, University of Waterloo, ON
- Taught middle school students on Wednesday nights how to solve contest-type questions and improve their problem-solving and critical thinking skills beyond classroom mathematics.
- Marked various CEMC math contests, including the Euclid Math Contest (~30000 annual writers).
- Prepared lessons, devised contest problems, and researched teaching resources on a daily basis; prepared a complete high school/adult education unit with examples and problem packages on probability and statistics for a CEMC outreach project in Gambia.

Dec 2009-August 2012
Mentor, Tutor (Volunteer)
Pathways to Education, Kitchener
- 3 years of continuous volunteering in area with high drop-out rates and at-risk teens. Led team-building, socializing activities every Thursday for three years; offered homework support in various subjects on Mondays.
- An enriched experience for personal growth in mentoring, leadership and sense of responsibility.

Other Experience and Involvements

Sept 2014 – Dec 2014	**Python Beginner Workshop Leader** – *University of Waterloo*
2009, 2014 - present	**Cellist** - *Orchestra@University of Waterloo*
Dec 2012-Dec 2013	**Federation Orientation Committee - Math**– *University of Waterloo*
Apr 2012- Aug 2012	**Vice President Operations**– *Math Society, University of Waterloo*
Sept 2012-Apr 2013	**Website Officer**- *Education Students Society, Queen's University*
Sept 2010- Jan 2012	**Teaching Option Representative**- *Math Society Council*
Sept 2010- Dec 2010	**Teaching Assistant**- *Faculty of Math, University of Waterloo*
Sept 2007- June 2009	**Chief Editor**- *The Woodlands School Yearbook*

Awards and Distinctions

- **Valedictorian** *of the graduating class of 2009 at The Woodlands School*
- **Waterloo Mathematics Foundation Teaching Fellowship** *for academic achievement and continued pursuit in the teaching profession*
- **Fred and Mary Stiby Award** *for outstanding citizenship and service to others in the school community.*
- **Rene Descartes Scholarship,** *University of Waterloo, Faculty of Mathematics, for exceptional performance in the Euclid math contest.*
- **President's Entrance Scholarship**, *University of Waterloo for academic merit upon admission.*
- **Most Valuable Player, Gold Standing**, *National Music Fest Canada 2009, The Woodlands School Chamber Strings.*
- **Honourable Mention (2nd place),** *Marion Drysdale Visual Art competition, regional level.*
- **Certificate of Distinction** *top 3% in Canada on the Euclid Mathematics Contest 2009, top 5% in the Canadian Open Mathematics Competition 2007, 2008*
- **Gold Standard** *top 4% in Canada on the Hypatia Mathematics Contest for grade 11*