

Zoe Hamel

Curriculum Vitae

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Education

- 2014–2016 **M.Sc. Mathematics**, *University of British Columbia*, Vancouver, Canada.
- Specialized in Number Theory and Graph Theory.
 - Masters' Thesis: "Graph Decomposition based on Degree Constraints" - supervised by Dr. Richard Anstee.
 - Teaching Assistant.
 - Two-year Fellowship.
- 2014–2010 **Bachelor of Arts in Economics and Mathematics**, *University of North Carolina Asheville*, Asheville, USA.
- Valedictorian of Class 2014.
 - Mathematics GPA: 4.0; Economics GPA: 3.98.
 - Undergraduate Research in Mathematics on Pythagorean Sequences - supervised by Dr. Patrick Bahls.
 - Full Scholarship Athlete for Division 1 Women's Tennis Program.
 - Women's Tennis Team captain and Number 1 player.

Experience

- August 2017–Present **Teaching Assistant**, AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES (AIMS), Cape Town, South Africa.
- Providing tutorship to students in mathematics and computing. Assisting lecturers with the class: leading tutorial and marking assignments.
- Working with students from many different cultures.
 - Helping students to become independent learners.
 - Organizing events for the Women in Sciences program.
- Jan 2017 – April 2017 **Mathematics Instructor**, VANCOUVER COMMUNITY COLLEGE, Vancouver, Canada.
- Taught a first year calculus course - *Techniques of Integration*.
- 2016 – 2017 **Mathematics and French Tutor**, TUTOR DOCTOR, Vancouver, Canada.
- Mostly tutoring high school students in Mathematics and French.
- 2014 – 2016 **Teaching Assistant in Mathematics and Geography**, UNIVERSITY OF BRITISH COLUMBIA, Vancouver, Canada.
- Assisted professor with tutorials and marking during my Masters - *12 hours a week*.
- 2012 – 2013 **Research project in Economics**, UNIVERSITY OF NORTH CAROLINA ASHEVILLE, Asheville, USA.
- Studied the interaction between vendors and consumers at tailgate markets around Asheville, NC (USA) and its influence on purchase. Worked with a team of 4 students supervised by Dr. Mathews - Department of Economics.
- Published a paper in the Journal *Agriculture and Human Values*, "Buying in: the Influence of Interactions at farmers' markets".

2012 – 2013 **Revision of academic paper in Economics**, UNIVERSITY OF NORTH CAROLINA ASHEVILLE, Asheville, USA.

Assisted Dr. Tatum (Department of Economics) in reviewing the final version of his paper on property rights on the Brazilian frontier before publication.

Miscellaneous

2012–2017 **Mathematics and French Tutor.**

Private tutoring for students of all levels.

2008– 2012 **Tennis Coach**, Sedan, FRANCE.

Coached Tennis with a permanent group for 2 years in a tennis club, and worked as a tennis coach at summer camps - players from 6 to 18 years old.

Volunteering

Board Member.

- o French Club at the University of North Carolina Asheville.
- o Vancouver Handball Club - Technical Director.
- o AIMS WIS - African Institut for Mathematical Sciences, Women in STEM.

Volunteered on several organic farms.

- o In Maine, Newfoundland, and the Okanagan Valley for a total of 3 months in exchange of room and board.
- o UBC Farm
- o Sky Harvest Urban Farm (Vancouver)

Volunteer Tutor and Speaker in Townships in South Africa.

- o Tutor Grade 11 students in Guguletu.
- o Speaker at Masiphumelele Highschool - universities opportunities, how to get information.

Computer skills

- o Mathematical Software: PYTHON, R
- o Development platform: Github
- o Word Processing Software: L^AT_EX, Open Office, Libre Office, Microsoft Office

Languages

French **Mother tongue**

English **Fluent**

Lived in English-speaking countries since 2010.

Spanish **Intermediate**

Read and conversation

Interests

- o Sports: Tennis, Running, Handball
- o Bike touring - I rode across Canada and from Vancouver to Mexico on West Coast of the USA.
- o Organic Farming
- o Languages