

Student X

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EDUCATION

Non-degree Studies

May – Aug. 2014, Dec. 2015 – Jun. 2016

She'arim College of Jewish Studies for Women, Jerusalem, Israel

- In-depth study of Biblical texts (in original Hebrew), Jewish law, and Jewish philosophy
- Leadership training and character development
- Hebrew: fluent (reading), intermediate (writing, speaking)

Bachelor of Arts (Honours)

2015

Glendon College, York University, Toronto

- First Class Honours; Specialized Major in Mathematics
- GPA: 7.9 on a 9-point scale; Member of Dean's Honour List for 2013-2014 and 2014-2015
- French: intermediate (reading, writing, speaking)

Related Coursework

Application of mathematical modeling techniques to determine whether there are any cities in North America that would be able to support a new team in the National Hockey League.

- As part of a two-person team, explored what makes current NHL teams successful – including characteristics of their locations – then used a common mathematical model for the spread of infectious diseases, involving a system of differential equations, to approximate the spread of fan allegiance to a new team. (The spread of fan allegiance to a sports team behaves similarly to an infectious disease since it spreads through social contact with those already “infected”).
- The type of disease model used (called an SIR model) considers the rate of infection of a disease, among other factors, in order to determine whether it will spread or die out. The idea in applying this model to fan allegiance in the NHL was to determine which potential host cities for new teams have the characteristics necessary for the 'infection' to spread so that the fanbase will grow and be willing to support the new team financially, thereby enabling the team to be financially viable.

WORK EXPERIENCE

Math Tutor, Toronto

Oct. 2011 – Present

- Tutor students in grades 7-12, as well as first- and second-year university courses. Teach and review material learned in class. Focus on helping students to master key concepts, solve problems, and improve computation speed.
- Helped grade 10 student, who has a learning disability, to raise his math grade from C to B+/A. Tutored student weekly for three years; now he only needs help occasionally.
- Coached university student to achieve an A in Mathematics for the Life Sciences at York University.

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WORK EXPERIENCE, continued

Research Assistant, York University, Toronto

May – Aug. 2013

- Studied a new basis of the algebra of non-commutative symmetric functions (NSym) that is an analogue of the Schur basis of the algebra of symmetric functions (Sym). Collaborated with four other students to prove the mathematical properties of the new basis. Under the supervision of Professor Mike Zabrocki.
- Created short videos explaining basic concepts of Sym and NSym.

Publication

Jon Smith, Student X, Jane Doe . “article title.” *journal title*. vol.no (year).

Street Canvasser, Public Outreach, Toronto

May – Aug. 2011

- Fundraised for Plan Canada, Médecins Sans Frontières, and World Vision in cities and towns around the GTA.

1:1 Shadow, Seneca Summer Camps, Toronto

Jun. – Aug. 2010

- Supervised and coached eight campers, designed routines for parents’ day; led outdoor activities.
- Shadow: successfully integrated 20-year-old young woman with Down syndrome into teen leadership program.

Gymnastics Coach, Seneca Community Recreation, Toronto

Jan. 2005 – Aug. 2009

- As a certified gymnastics coach, instructed children aged 2-15 on evenings and weekends from 2005 to 2009, and in summer camp programs, children aged 5-15 from 2007 to 2009. In summer 2010, shadowed campers with disabilities at Seneca Summer Camps and integrated them into regular camp programs.
- Taught gymnasts new skills using intermediate steps and games.

VOLUNTEER EXPERIENCE

Friendship Circle, Toronto

Jun. 2011 – Apr. 2014

- Visited child with severe autism on a weekly basis to provide companionship and support, as well as respite for family members.

AJWS Volunteer Summer, Uganda

Jun. – Aug. 2012

- Travelled to Uganda for two-month mission to support local non-governmental organization. Work involved construction of public radio station and tutoring math at vocational school.