

ALEX KAZACHEK

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EDUCATION

University of Western Ontario

2019 – 2023 (*Projected*)

HBSc in Mathematics & Data Science.

GPA of 3.90.

AWARDS

NSERC USRA

2021 *Summer*

Cecil G. Gracey Scholarship

2021 *Winter*

Borwein Memorial Prize

2020 *Winter*

Dean's Honour Roll

2019 & 2020 *School Years*

Western Scholarship of Excellence

2019 *Fall*

SKILLS

Programming

Creating web sites using React.js.

Working with Python, Java, and C.

Implementing cryptographic systems.

Design

Typesetting with \LaTeX and TikZ.

Survey creation with Qualtrics.

Languages

Russian (conversational fluency).

Japanese (beginner).

ACADEMICS

Directed Reading Program

2020 *Fall & Winter*

Studied differential topology under a graduate student, primarily reading Guillemin & Pollack.

Presented on the role of transversal intersections of rays and hypersurfaces in the Jordan-Brouwer separation theorem.

WORK EXPERIENCE

University of Western Ontario | Research Assistant

2021 *Summer (on-going)*

Performing an undergraduate research project in mathematics, funded by NSERC.

Supervised by Dr. Tatyana Barron.

Stoney Creek YMCA | Membership Representative

February 2017 – March 2020

Co-led Accounts Receivable, corresponding with up to 100 members at once. Prior to 2019 merger, held branch at fewest arrears despite being largest in size.

Regularly achieved one of the highest monthly hourly sales.

YMCA of Western Ontario | Camp Administrator

2018 *Summer*

Led Camp Accounts Receivable. Collected over \$8000 in arrears within two weeks, and worked out custom payment plans and subsidies through YMCA's Strong Kids charity.

Worked with agencies like the Children's Aid Society and City of London to process payments and subsidy applications.

CLUBS & COMMITTEES

Canadian Undergraduate Mathematics Conference | Committee Member

2021 *Summer (on-going)*

Creating the new website for this and future CUMCs. Implementing desktop and mobile support, and bilingual localization (English & French).

2020 *Summer*

Decided on software solutions to rapidly move the conference online due to Covid-19. Hosted 112 students from 22 universities and 4 countries.

Arranged an industry panel of past mathematics undergraduates, including two senior employees at Lyft and a graduate student in financial engineering at Columbia University.

Math Club at Western | VP Academics

2020 & 2021 *School Years (on-going)*

Launched biweekly mathematics contests available to all undergraduate students, and helping write and grade these contests.

Introduced student seminars, an opportunity for undergraduate students in mathematics or related disciplines to share their independent studies and projects.