

Min Seo

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EDUCATION

University of Waterloo, ON, Canada

Bachelor of Arts (Honours)

Sep 2020 – Aug 2024

Psychology, Honours
Mathematics, Joint Honours

RESEARCH INTERESTS

- Designing Accessible K-12 Mathematics Curriculum
- Reasoning & Decision-Making Processes in Mathematical Learning
- Examining the Roles of Self-esteem and Self-efficacy of Students in Learning Mathematics
- Teacher Education: Transferrable Impressions of Mathematics
- Supporting Students with Various Learning Needs in Mathematics Education

RESEARCH EXPERIENCES

Social Development Lab, University of Waterloo – Directed Studies Student **Dec 2023 – Current**

Worked with Serena McDiarmid, Ph.D. student, and Dr. Heather Henderson, Principal Investigator, at the Social Development Lab (SDL).

Validation of Waterloo Region Belonging Survey – Middle Childhood Ver. **Dec 2023 – Current**

The Waterloo Region Belonging Survey – Middle Childhood Version (WRBS-Middle) is designed to measure children's (ages 8 to 13) sense of belonging in non-school contexts.

- Examined the internal consistency, validity, and factor structure of the WRBS-Middle
- Wrote a formal report on the validation processes and results

Reasoning & Decision Making Lab, University of Waterloo – Research Assistant **Jun 2022 – Current**

Worked with Kaiden M Stewart, Ph.D. candidate, and Dr. Jonathan Fugelsang, Principal Investigator, at the Reasoning and Decision Making Lab (RDML).

Bet on Yourself (BOY)

Jan 2023 – Current

BOY is an in-person study that investigates how people process information. A series of logical problems were presented for each participant to solve, and they were asked to "bet on themselves" by rating their confidence level on each response.

- Recruited and provided participation credits to participants on SONA (psychology research experiences online platform)
- Oriented research participants to the study setting for data collection
- Participated in the online session of data cleaning & data analysis using R

- Proofread and reviewed the study before running the experiment

Thinking in Action (TIA)

Jan 2023 – Nov 2023

TIA is an in-person study investigating how people process information when reasoning and making decisions.

- Recruited and provided participation credits to participants on SONA
- Oriented research participants to the study setting for data collection
- Proofread the study information

Cuing Confidently (CC)

Jan 2023 – Nov 2023

CC is an in-person study examining how people think and reason.

- Participated in SONA researcher training
- Oriented research participants to the study setting for data collection
- Recruited and provided participation credits to participants on SONA

Faculty of Education, Wilfrid Laurier University – Research Assistant

Jun 2022 – Current

Worked with Dr. Jennifer Holm in the field of mathematics education.

Teachers' Use of Mathematics Apps

Sep 2022 – Mar 2023

This qualitative study aimed to examine teachers' experiences using math apps, mainly *Dreambox* and *Prodigy*, in their classrooms.

- Conducted a literature search and drafted an informal report of the results
- Participated in the research design meetings

CONFERENCES & PRESENTATIONS & TALKS

How to Become an Ally for Colleagues and Participants in the 2SLGBTQ+ Community

Feb 2024

A 30-minute presentation on inclusive practices at the monthly staff meeting of the Safer Use Program, House of Friendship.

- Looking at homelessness in trans* community through a trauma-informed lens
- Building a welcoming safer use space
- Safety is important, and it looks different for everyone
- Intention vs. impact

OTHER PROJECT

Learning & Teaching of Mathematics – Coordinator, Founder

Nov 2023 – Current

Collaborated with other coordinators to create an online platform for learning & teaching of K-12 mathematics to reduce students' learning barriers and equip teachers better to guide students with additional learning challenges.

INDUSTRY EXPERIENCES

Math Maestro – Director, Founder

Jan 2024 – Current

Provided math instructions & lessons for groups and individuals.

- Created initial assessment using LaTeX for the group placements and curriculum development
- Designed lesson materials based on the Ontario grade 11 mathematics curriculum
- Assessed students' progress by developing tests

Safer Use Program, House of Friendship – Harm Reduction Worker**Nov 2023 – Current**

Safer Use Program (SUP) is an urgent medical care site within a local shelter in Waterloo, ON.

- Encouraged safer use practices.
- Shared harm reduction information with participants who regularly use substances.
- Facilitated a judgement-free environment by practicing trauma-informed care.
- Provided verbal and medical interventions such as injectable naloxone during incidents of accidental drug poisoning.

Mathematics Tutor**Oct 2019 – Dec 2023**

Provided tutoring for curriculum-based and competition mathematics for students ranging from grade 7 to first-year university, both in-person and online.

- Developed lesson materials and mock tests to fit each student's learning needs
- Offered free/pay-what-you-can tutoring for students with financial and learning challenges

Centre for Education in Mathematics and Computing – Math Circles Assistant **Sep 2022 – Dec 2022**

The Centre for Education in Mathematics Computing (CEMC) is housed within the Faculty of Mathematics at the University of Waterloo.

- Designed, assisted, and delivered CEMC Math Circles in-person and online for grade 6, 7, and 8 students to enrich their skills and interests in mathematics.
- Designed and delivered the in-person version of CEMC Math Circles for grade 6-8 students
- Assisted online delivery of CEMC Math Circles
- Supported the organization of grade 9-12 CEMC Math Circles
- Proofread the Beaver Computing Challenge
- Participated in the Canadian Senior and Intermediate Contests marking sessions

Global Affairs Canada – Technical Advisor, Data Innovation**Nov 2021 – Dec 2021**

Global Affairs Canada (GAC) manages Canada's diplomatic relations, promotes international trade and provides consular support.

- Moved GAC's data action plan forward by developing a SharePoint naming convention and a thematic list
- Participated in daily meetings on MS Teams

LEADERSHIP & COMMUNITY INVOLVEMENTS**University of Waterloo Orchestra – Violist****Jan 2024 – Current**

Participate in weekly rehearsals to prepare for an end-of-the-term concert.

- Beethoven Symphony No. 6
- Grieg Piano concerto in a minor
- Weber, Overture to Der Freischütz

The Centre for Addiction and Mental Health – NYAC Member**Jun 2021 – Current**

National Youth Action Council (NYAC) comprises a community of passionate youth mental health advocates across Canada.

- Participated in research, service planning and education opportunities at CAMH

- Facilitated an affirming environment to talk about mental health and substance use challenges

LIFT Youth Experts Collective – Youth Advisor

Sep 2021 – Nov 2023

LIFT YEC is a youth committee to advise on the Individual Placement and Support (IPS) program at the Centre for Addiction and Mental Health.

- Participated in monthly virtual meetings to advise services and research project designs
- Drafted youth-friendly materials to explain the research project on the IPS program
- Advised on the materials to train staff members of youth hubs across Canada on the education/employment support program

The Glow Centre for Sexual and Gender Diversity – Trans Equity Director

Jan 2023 – Aug 2023

The Glow Centre is the oldest-running university-based 2SLGBTQ+ group in Canada.

- Ensured that trans* students' voices were heard
- Advocated for the resolutions to the issues trans* students at the University of Waterloo were facing
- Maintained the Trans Resource Library

Waterloo Ready Mentorship, Math Orientation – Peer Mentor, Leader

Jun 2021 – Aug 2021

The Waterloo Ready Mentorship program supports first-year students in transitioning smoothly into their first year at the University of Waterloo.

- Facilitated weekly hangouts for 30 first-year math students

The Women's Centre, University of Waterloo– Volunteer

Sep 2020 – Apr 2021

The Women's Centre aims to provide a positive and supportive environment on campus for all women and trans* people.

- Received training to provide peer support for marginalized individuals
- Organized and supported events
- Provided feedback on trans* inclusion.

Youth Committee, Friends of Ruby – Committee Member

Feb 2020 – Jan 2021

Friends of Ruby is an organization dedicated to the progressive well-being of 2SLGBTQ+ youth (aged 16-29) through mental health, social, and housing services.

- Attended staff training and meetings to obtain general information about the organization
- Organized bi-weekly meetings to develop & manage programs for 2SLGBTQ+ youth
- Participated in discussions with the head directors of the organization
- Communicated with youth to hear their needs
- Documented outcomes of projects and future suggestions in an annual report

Montgomery's Inn Culinary Arts Projects – Youth Mentor

Oct 2019 – Feb 2020

Montgomery's Inn is a historic museum owned and operated by the City of Toronto.

- Mentored 20 high school students
- Provided support with safety training & tours around the inn

- Managed a pollinator garden
- Guided students to follow cooking instructions for full-course meals

Homework Club, Etobicoke Collegiate Institute – Volunteer Tutor

Sep 2017 – Jan 2020

The Homework Club at ECI provides homework help to grade 9-12 students in all subject areas.

- Provided tutoring for all STEM subjects including math, biology, chemistry, physics, computer science, and introductory kinesiology

Youth-Police Dialogues, The 519 – Volunteer

Oct 2019 – Dec 2019

Youth-Police Dialogues are conversations between a group of 15 2SLGBTQ+ youth and two queer police officers.

- Actively discussed the impacts of the police force on marginalized communities
- Provided feedback to the chief of Toronto police officers

Mathletes, Etobicoke Collegiate Institute – Club President

Sep 2017 – Jun 2019

The Mathletes at ECI provides a space for mathematical growth and enrichment for high school students.

- Delivered lessons twice a week for 20 students
- Co-designed a curriculum based on the contests held by the Center for Education in Mathematics and Computing (CEMC)

Runnymede Healthcare Centre – Volunteer

Jan 2018 – Jan 2019

Runnymede Healthcare Centre is a dynamic 206-bed rehabilitation and complex continuing care hospital in Toronto.

- Communicated effectively with patients to provide physical & emotional support
- Assisted activation therapists to run weekly patient activation programs
- Provided support to receptionists with any needs of the healthcare centre
- Contributed to restricting visits in cases of epidemics
- Delivered Korean-English translation when requested by patients

TEACHING INTERESTS

- Introductory Psychology
- Mathematics Education
- Basic Research Methods
- Mathematical Logic
- Calculus & Introductory Real Analysis
- Introductory Algebra & Linear Algebra
- Elementary Number Theory

AWARDS & HONOURS & GRANTS

Sameer Ahuja Perseverance Award, University of Waterloo (\$3,000)	2024
WMCTF Mathematics Teaching Fellowship, University of Waterloo (\$500)	2023

Piquard Family Award, University of Waterloo (\$1,200)	2022
Kay and Stuart Nicol Scholarship, University of Waterloo (\$2,500)	2022
University of Waterloo Merit Scholarship, University of Waterloo (\$1,000)	2021

TECHNICAL SKILLS

- Programming Languages: C, Python, Racket, Scheme, R, LaTeX, Turing, Java
- Languages: English, Korean
- Data Analysis Tools: PowerBI, SPSS, RStudio

PROFESSIONAL DEVELOPMENT

- Certification of Completion in the Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans Course on Research Ethics (TCPS 2: CORE)
- Certification in Standard First Aid with CPR-C
- Certification in Trauma-Informed Care (TIC)
- Certification in Personal Health Information Privacy Training (PHIPA)

PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

- Member of the Canadian Mathematics Education Study Group (CMESG)
- Member of the International Group for the Psychology of Mathematics Education (PME)
- Student Affiliate of the Canadian Psychological Association (CPA)
- Student Member of the Canadian Mathematical Society (CMS)
- Associate Member of the Korean Psychological Association (KPA)
- Member of the Psychology Equity, Diversity, and Inclusion (EDI) Working Group at the University of Waterloo
- Member of Spectra, the Association for LGBT Mathematicians