

# Kiara McDonald

Email: [kiaramcdonald@uvic.ca](mailto:kiaramcdonald@uvic.ca)

---

<b>Education</b>	<b>M.Sc. in Mathematics</b> University of Victoria Supervisors: Dr. Richard Brewster and Dr. Jing Huang	In progress
	<b>B.Sc. in Mathematics with a Minor in Computer Science</b> (Graduated with Distinction) Thompson Rivers University	April 2023
<b>Scholarships and Awards</b>	<b>Kennedy Graduate Scholarship in Mathematics and Statistics</b> Awarded to academically outstanding entering Masters or PhD students at UVic.	Dec 2023
	<b>UVic Graduate Award</b> Awarded to graduate students of high academic standing.	Sept 2023- April 2024
	<b>NSERC Undergraduate Student Research Award</b> Funding for undergraduate students in the natural sciences and engineering to engage in research.	May 2023- Aug 2023
	<b>Dr. John Ciriani Mathematics Award</b> Awarded to an undergraduate student majoring in Mathematics displaying promise and good character.	Feb 2023
	<b>TRU Open Scholarship</b>	Dec 2022
	<b>TRU Foundation Undergraduate Achievement Scholarship</b> Students in the Faculty of Science, with the 10 highest combined Fall/Winter GPAs.	Sept 2022
	<b>TRU Research Ambassador Award</b> Capstone experience to strengthen students' undergraduate research understanding .	Sept 2022- April 2023
	<b>NSERC Undergraduate Student Research Award</b> Funding for undergraduate students in the natural sciences and engineering to engage in research.	May 2022- Aug 2022
	<b>TRU Faculty of Science Scholarship</b>	March 2022
	<b>TRU Leadership Entrance Scholarship</b>	Sept 2019
	<b>Dean's List</b> Thompson Rivers University.	Sept 2019- April 2023
	<b>BC Achievement Scholarship</b>	Sept 2019
<b>Publications</b>	R. C. Brewster and K. A. McDonald. Broadcast independence and packing in certain classes of trees. In Preparation, 2024+.	In progress
	R. C. Brewster and K. A. McDonald. Hamiltonicity of dominating graphs of block graphs. In Preparation, 2024+.	In progress

---

<b>Publications Cont.</b>	Researching in Math- Kiara McDonald's Research Showcase Blog post for Canadian Undergraduate Research Network	Aug 2023
	<hr/>	
<b>Talks</b>	<b>Broadcasting in networks: searching for optimal coverings and packings</b> UVic Discrete Math Seminar	Feb 2024
	<b>Broadcasting in networks: searching for optimal coverings and packings</b> UVic GSS Excellence in Research Symposium.	Oct 2023
	<b>Combinatorial Nullstellensatz and Turán Numbers</b> UVic Discrete Mathematics Mini Seminar.	Oct 2023
	<b>Broadcasting in networks: searching for optimal coverings and packings</b> Canadian Undergraduate Mathematics Conference, University of Toronto.	June 2023
	<b>Broadcasting in networks: searching for optimal coverings and packings</b> TRU Undergraduate Research Conference. Contributed talk.	March 2023
	<hr/>	
<b>Conferences</b>	<b>Coast Combinatorics Conference</b> Victoria, BC, Canada	Nov 2023
	<b>UVIC GSS Graduate Research Symposium</b> Victoria, BC, Canada	Oct 2023
	<b>Canadian Undergraduate Mathematics Conference</b> University of Toronto, Toronto, ON, Canada	June 2023
	<b>TRU Undergraduate Research Conference</b> Kamloops, BC, Canada	March 2023
	<b>Canadian Undergraduate Mathematics Conference</b> Laval University, Quebec City, QC, Canada	July 2022
	<hr/>	
<b>Research Experience</b>	<b>Research Assistant</b> Thompson Rivers University Graph theory research project, focusing on hamiltonicity of dominating graphs under the supervision of Dr. Richard Brewster	May 2023- August 2023
	<b>Research Assistant</b> Thompson Rivers University Graph theory research project, focusing on broadcast independence and broadcast packing under the supervision of Dr. Richard Brewster	May 2022- August 2022
<hr/>		

<b>Teaching Experience</b>	<b>UVic Teaching Assistant</b> Review Session: Math 151(Finite Mathematics) Marking: Math 122(Logic and Foundations) Tutoring: Math and Stats Assistance Centre	Sept 2023- April 2023
	<b>TRU Teaching Assistant</b> Tutoring: Computer Science Help Lab	Sept 2022- Dec 2022
<b>Community and Volunteer Activities</b>	<b>SIGMAS Vice President</b> Students in Graduate Mathematics and Statistics Club	Jan 2024-
	<b>Graduate Student at Large</b> Association of Women in Mathematics UVic Chapter	Sept 2023-
	<b>TRU Motionball</b> Raised funds for the Special Olympics	March 2023
	<b>TRU BC Math Contest</b> Helped moderate students on the day of the competition	May 2022
<b>Skills</b>	<b>Python programming</b> <b>Microsoft Word, Microsoft Excel, Microsoft PowerPoint and Microsoft Teams, and Google Drive Program</b>	
<b>References</b>	<b>Dr. Richard Brewster</b> Professor at Thompson Rivers University rbrewster@tru.ca	
	<b>Dr. Jing Huang</b> Professor at the University of Victoria huangj@uvic.ca	
	<b>Dr. Saeed Rahmati</b> Assistant Teaching Professor at Thompson Rivers University srahmati@tru.ca	