

Qiu Shi Wang

Email: qiu.s.wang@mail.mcgill.ca

Education

- Bachelor of Science - Honours Mathematics and Physics - McGill University, Montréal, QC (Fall 2020 - Ongoing)
- Diploma of Collegial Studies - Honours Pure and Applied Science - Marianopolis College, Montréal, QC (Fall 2018 - Winter 2020)
 - Marianopolis Scholar
- Diplôme d'études secondaires - Collège Jean-de-Brébeuf, Montréal, QC (Fall 2013 - Winter 2018)

Research

- Undergraduate research internship in dark energy cosmology (Winter 2021 - Ongoing)
 - NSERC Undergraduate Summer Research Award (Summer 2021, \$7500 total) under James Cline (McGill University)
- Research internship in algebraic topology (Summer 2020)
 - FRQNT grant (\$4000) under François Charette (Marianopolis College)
 - Topic: Hochschild cohomology of cup product algebras of closed oriented 3-manifolds
- Directed reading in mathematics (Winter 2019 - Ongoing)
 - Supervised by François Charette
 - Topics: Complex analysis and Riemann surfaces, general and algebraic topology, spectral sequences, differential topology, Morse theory

Publications

Wang, Q. (2021), *Hochschild Cohomology of the Cohomology Algebra of Closed Orientable Three-Manifolds*, McGill Science Undergraduate Research Journal **16**, 57-60.

Awards and honours

- John Stuart Foster Scholarship in Physics 2020-2021 (\$1320)
 - For high academic standing entering the penultimate year in the Honours or Major Physics program
- McGill Major Renewable Entrance Scholarship (\$3000 per year)
- Sir Isaac Newton Exam (University of Waterloo) 2020 - **3rd place**
- Association mathématique du Québec (AMQ) contest 2020 - **Quebec champion**
- Canadian Association of Physicists Exam 2019 - **9th place nationally, 2nd place Quebec**
- Canadian Open Mathematics Challenge 2019 - **Bronze Award (3rd place) - Quebec**
- Championnat de l'Association québécoise des jeux mathématiques 2018 - **Quebec champion**
- McGill Excellence Award in Science (\$500) - Collège Jean-de-Brébeuf, 2018

Conferences

- Séminaire universitaire en mathématiques à Montréal (SUMM) 2021 (January 9-10, 2021)
 - Title: On the center of the cohomology algebra of closed orientable 3-manifolds and a theorem of Sullivan

Other activities

- Quantum Cryptography School for Young Students - Institute for Quantum Computing, University of Waterloo (August 2019)
- Association mathématique du Québec math camp - Dawson College (June 2018), Université du Québec à Trois-Rivières (June 2019)
- McGill Physics Olympiad Program - (Fall 2018 - Winter 2019)
- International Summer School for Young Physicists 2018 - Perimeter Institute for Theoretical Physics (July 2018)

Work experience

- Assignment grader - Marianopolis College - (Fall 2019 - Ongoing)
 - Courses: Linear Algebra, Calculus III, Mechanics, Waves, Light and Modern Physics
- Peer tutor in mathematics and physics - Marianopolis College - (Fall 2019 - Ongoing)