Bryan W. Kettle

Curriculum Vitae

Department of Mathematical and Statistical Sciences
University of Alberta
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Edmonton, Alberta, Canada

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Education

University of Alberta

Edmonton, AB, Canada

PhD in Mathematics Sep 2018 - Summer 2023 (Expected)

Advisor: Dr. Nicolas Guay

Dissertation: Orthosymplectic, Periplectic, and Twisted Super Yangians

University of Western Ontario

London, ON, Canada

Msc in Mathematics Sep 2017 - Oct 2018

Advisor: Dr. Janusz Adamus

Memorial University of Newfoundland

St. John's, NL, Canada

Bsc (Honours, First Class) in Pure Mathematics Sep 2012 - Jun 2017

Advisor: Dr. Yorck Sommerhäuser

Research Interests

The algebraic structure and representation theory of quantum groups, such as super Yangians and twisted super Yangians.

Teaching Experience

University of Alberta

Sep 2018 - Current

Graduate Teaching Assistant

As a Laboratory Instructor:

• Math 100 Calculus I Lab

Fall 2018, 2020, 2021

• Math 101 Calculus II Lab

Spring 2019

Math 102 Applied Linear Algebra LabMath 209 Calculus III Lab	Winter 2019, 2020, 2021, 2022 Fall 2019
As a Tutor: • Decima Robinson Support Centre	Fall 2018, 2019, 2021; Winter 2019, 2020, 2021
 As a Course Grader: Math 125 Linear Algebra I Math 260 Mathematical Reasoning for Teachers Math 322 Graph Theory Math 324 Elementary Number Theory Math 325 Linear Algebra III 	Spring 2019 Spring 2021 Spring 2020, Fall 2022 Fall 2020 Winter 2021, Winter 2023
 Math 326 Rings and Modules University of Western Ontario Graduate Teaching Assistant 	Winter 2019 Sep 2017 - Apr 2018
As a Tutor: • Math Help Centre As a Course Grader:	Fall 2017, Winter 2018
 Calc 1000A Calculus I Math 1225B Methods of Calculus 	Fall 2017 Winter 2018
Memorial University of Newfoundland Teaching Assistant	Sep 2016 - Apr 2017
 As a Course Grader: Math 1000 Calculus I Math 1051 Finite Mathematics II Math 1090 Algebra and Trigonometry 	Fall 2016 Fall 2016 Fall 2016, Winter 2017

Scholarships & Awards

- Dr. Josephine M. Mitchell Research Scholarship (Dec 2022). University of Alberta.
- Graduate Student Teaching Award (2022). University of Alberta.
- \bullet $Eoin\ L.$ Whitney Scholarship (May 2020). University of Alberta.
- University of Alberta Doctoral Recruitment Scholarship (Sep 2018). University of Alberta.

Presentations

- Super Yangians: Where We Are Today. PIMS-USask Geometry, Algebra and Physics Seminar at the University of Saskatchewan, May 2022.
- A Friendly Introduction to Representation Theory. Mathematical and Statistical Sciences Graduate Colloquium at the University of Alberta, October 2021.
- A Friendly Introduction to Representation Theory. Mathematical and Statistical Sciences Graduate Colloquium at the University of Alberta (Virtual), February 2021.
- Dualizing Algebras. Graduate Algebra Seminar at the University of Alberta, January 2020.
- Introduction to Hopf Algebras. Graduate Class Seminar at the University of Western Ontario, December 2017.
- Yetter-Drinfel'd Modules and the Radford Projection Theorem. Bachelor Thesis Public Presentation at the Memorial University of Newfoundland, April 2017.
- Olshansky's Modification of Golod's Example of Non-Nilpotent Finitely Generated Nil-Algebras. Algebra Seminar at the Memorial University of Newfoundland, October 2016.

Conferences Attended

- Workshop on Symmetric Spaces, Their Generalizations, and Special Functions. University of Ottawa, August 2022.
- Quantum Field Theories and Quantum Topology Beyond Semisimplicity. Banff International Research Station, November 2021.
- QRST: Quantum Groups, Representation Theory, Superalgebras, and Tensor Categories. University of Ottawa (Virtual), August 2020.
- Hopf Algebras, Algebraic Groups, and Related Structures. Memorial University of Newfoundland, June 2016.
- Algebraic Groups and Lie Algebras. Bonne Bay Marine Station of Memorial University of Newfoundland, August 2015.

Volunteering

- Treasurer and Pure Math Representative of SIGMAS (Society in Graduate Mathematics and Statistics) at the University of Alberta (Sep 2019 Aug 2022).
- Representative for the University of Alberta Graduate Program in Mathematics at the 2021 Canadian Undergraduate Mathematics Conference (Aug 2021).
- Proctor for the Blundon Seminar Camp at the Memorial University of Newfoundland (May 2016).