Bryan W. Kettle

Curriculum Vitae

Department of Mathematical and Statistical Sciences
University of Alberta
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Education

University of Alberta Edmonton, AB, Canada

PhD in Mathematics Sep 2018 - Summer 2023 (Expected)

Advisor: Dr. Nicolas Guay

Thesis: Orthosymplectic, Periplectic, and Twisted Super Yangians (In Progress)

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

Scholarships

- Dr. Josephine M. Mitchell Research Scholarship (Dec 2022). University of Alberta.
- 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).