Kristaps John Balodis

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PUBLICATIONS

On the Mean Connected Induced Subgraph Order of Block Graphs
Published in the Australasian Journal of Combinatorics, available on Arxiv.

EDUCATION

University of Calgary — *PhD, Mathematics*

September 2021 - Present

University of Manitoba — *Masters of Science, Mathematics*

September 2019 - October 2021

University of Winnipeg — *Bachelor of Science, (Honours) Mathematics*

September 2011 - April 2019

University of Manitoba — *Visiting Student*

September 2017 - Present

Obtained permission to simultaneously attend mathematics courses at both the University of Winnipeg, and University of Manitoba. All courses counted for credit towards an undergraduate degree at the University of Winnipeg.

T.A. EXPERIENCE

Analyis II — *University of Calgary*
Winter 2022

Explorations in Math — *University of Calgary*
Winter 2022

Linear Algebra I — *University of Calgary*
Fall 2021

SKILLS

Basic programming knowledge in Sage, Python, Java, LEAN, and Maple.

Proficient with LaTex.

AWARDS

University of Winnipeg, Student of Distinction
March 2014
December 2017

University of Winnipeg, Academic proficiency Scholarship
October 2018
October 2019

ERDÖS NUMBER

2

LANGUAGES of PROFICIENCY

English

LANGUAGES of INTEREST

German
ASL
Italian
French

Introduction to Number Theory — *University of Manitoba*

Winter 2021

Introduction to Analysis — *University of Manitoba*

Fall 2020

Discrete Mathematics — *University of Manitoba*

Winter 2020

Integral Calculus— *University of Manitoba*

Fall 2019

Applied Calculus— *University of Manitoba*

Fall 2019

ADDITIONAL WORK EXPERIENCE

University of Calgary — *Academic VP, GUMS*

September 2021 - present

Official representative of mathematics and statistics graduate student rights.

University of Calgary — *T.A./tutor*

September 2021 - present

Tutoring university students in mathematics, marking, and teaching tutorial classes.

University of Manitoba — *T.A./tutor*

September 2019 - present

Tutoring university students in mathematics, marking, and teaching tutorial classes.

University of Manitoba — *Workshop Leader*

September 2019 - present

Hosting extra workshops for students of linear algebra/vector geometry, and math & art courses.

True North Youth Foundation — *Tutor*

October 2018 - February 2019

Tutored underprivileged youth in various different high school subjects.

University of Winnipeg , Tutoring Center — *Tutor*

September 2018 - April 2019

Tutored university students in mathematics.

The Sentient Bookstore — *Private Tutor*

September 2017 - April 2019

Tutored high school, and university level mathematics, as well as high school physics.

VOLUNTEER EXPERIENCE

The Prison Math Project — Director of Social Media + *Mentor*

Winter 2021 - present

An outreach program designed to connect inmates interested in learning mathematics with pen pals.

Kangaroo Math Contest — *Content Creator*

Winter 2021

National Canadian math competition for grade school students.

COMMITTEES

Search for Department Head — *Graduate Representative*

Winter 2021, University of Manitoba

Represented graduate students in assessing and deciding on applicants for a new head of the math department at the University of Manitoba.

Annual General Meeting — *Graduate Representative*

Fall 2020, University of Manitoba

Represented graduate students during the math department's annual general meeting.

EXTRA - CURRICULAR ACTIVITIES

Creating Math content for Youtube: Channel name: K-Theory

2022 Midwest Representation Theory Conference, University of Michigan

2020 Arizona Winter School on Arithmetic Geometry, University of Arizona

2019 63rd Cascade Topology Seminar, University of Manitoba

2019 The Homological Algebra of Mirror Symmetry, University of Toronto

2019 Arizona Winter School on Arithmetic Geometry, University of Arizona

Geometry and Topology Seminars on Stacks, University of Manitoba

2018 Western Summer School in Algebra, University of Alberta

2018 Prairie Discrete Math Workshop, Brandon University

2018 Western Algebraic Geometry Symposium, San Francisco State University

2017 Western Summer School in Algebra, University of Alberta 2017

2017 Prairie Discrete Math Workshop, Living Skies Conference Center 2017