

# 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.

## TEACHING EXPERIENCE

### VXML project leader — *University of Calgary*

Fall 2022 - Winter 2023

## T.A. EXPERIENCE

### Linear Algebra I — *University of Calgary*

Fall 2022

### Analysis II — *University of Calgary*

Winter 2022

## 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

## ERDŐS NUMBER

2

## LANGUAGES of PROFICIENCY

English

## LANGUAGES of INTEREST

German

ASL

Italian

French

## **Explorations in Math — University of Calgary**

Winter 2022

## **Linear Algebra I — University of Calgary**

Fall 2021

## **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**

#### **Contributions to Discrete Mathematics (academic journal)**

— *Technical editor.*

November 2022 - present

Carrying out technical editing of LaTeX documents submitted for publication.

#### **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.

### **2nd Alberta Graduate Mathematics & Statistics Conference**

Fall 2022 - Present

Serving as one of the organizers for the conference, which will connect graduate students across Western Canada.

### **1st Alberta Graduate Mathematics & Statistics Conference**

Fall 2021 - Summer 2022

Served as one of the organizers for the conference, which connected graduate students across Western Canada.

### **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**