YUGUANG (ROGER) BAI

@ rogerbai92@gmail.com

J 647-573-3158

≥ 1805-110 Erskine Avenue

proger-bai.github.io/personal-webpage/

🞧 roger-bai

Toronto, Ontario, Canada

EXPERIENCE

Course Instructor

University of Toronto

- January 2020 Ongoing
- Toronto, ON
- Taught hundreds of students various topics in mathematics, particularly those in linear algebra
- Was in charge of an entire course for first- and second-year students
- Achieved an overall 4.4/5 course evaluation from students

Teacher's Assistant

University of Toronto

- September 2015 Ongoing
- Toronto, ON
- Worked with and helped a variety of students in areas such as calculus, linear algebra, and MATLAB programming
- Debugged several students' code and helped them understand their own code

EDUCATION

Ph.D. in Mathematics

University of Toronto

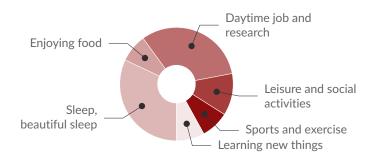
Expected Summer 2021

Thesis title: Cluster Algebra Structure for Mirković-Vilonen Cycles and Polytopes

AWARDS

- Mathematics Graduate Program Award 2019
- Blyth Fellowship 2018
- Malcolm Slingsby Robertson Fellowship 2018
- University of Toronto Fellowship 2015 2020
- NSERC Undergraduate Research Award 2014, 2015

A DAY OF MY LIFE



SPECIFIC INTERESTS

Badminton Mystery novels Logic puzzles Machine Learning

Deep Learning Classification Problems Reinforcement Learning

LANGUAGES

Python

MATLAB

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PACKAGES

Tensorflow

Keras

Pandas

PRESENTATIONS

The Geometric Satake Isomorphism University of Toronto

December 2019

Cluster Algebras and MV Cycles/Polytopes Layola University Chicago

November 2019

Derived Categories and its Applications to Sheaves

University of Toronto

Cotober 2018

Algebraic K-Theory of Group Scheme Actions

University of Toronto

March 2018

Representations of Quivers and Auslander-Reiten Theory

University of Toronto

October 2017

Hirzebruch-Riemann-Roch Theorem in Dimension One

University of Toronto

September 2016