YUGUANG (ROGER) BAI

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in roger-bai-404a061b4

noger-bai

Toronto, Ontario, Canada

EXPERIENCE

Course Instructor

University of Toronto

Jan. 2020 - Ongoing

Toronto, ON

- Taught hundreds of students in various disciplines topics in mathematics, particularly those in linear algebra
- Was one of the first instructors to teach and be in charge of a course during the COVID-19 pandemic, laying the foundation and provided advice for future courses
- Achieved an overall 4.4/5 course evaluation from students

Teacher's Assistant

University of Toronto

- **Sept.** 2015 Dec. 2019
- 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

Toronto, ON

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

Palette x Fields Accelerated Cybersecurity Training Pro-

Fields Institute

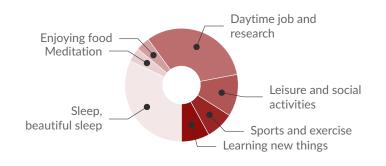
Nov. 2020 - Jan. 2021

Toronto, ON

Learned a variety of topics such as

- Risk Management
- Cryptography
- Network Architecture

A DAY OF MY LIFE



LANGUAGES

Python

MATLAB



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

October 2018

Algebraic K-Theory of Group Scheme **Actions**

University of Toronto

March 2018

AWARDS

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

SPECIFIC INTERESTS

Badminton

Mystery novels

Cybersecurity

Machine Learning

Reinforcement Learning