

DANIEL CHUI

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EDUCATION

University of Toronto 2021 - Present

Honours Bachelors of Science - **Astronomy and Physics Specialist, Math Minor**

- Degree Expected: June 2025
- Selected Coursework: Introductory and Advanced Physics and Math
- Research: Literature review investigating the state of K-12 physics and astronomy education, with an emphasis on teacher shortages and training

WORK EXPERIENCE

Physics Library - Library Assistant (Part-Time) 2023 - 2024

University of Toronto, ON

- Front desk duties: checking materials in and out, shelving, help desk
- Inventory organization, helped box and move materials for renovation

VOLUNTEERING AND ACTIVITIES

University of Toronto

- **Coding the Cosmos:** 2024 - Present
 - Designing Python code notebooks on astronomy concepts for high school students, organizing and running field trips on campus
- **Not Quite A Lecture:** 2024 - Present
 - Developing and instructing lectures on physics and astrophysics in Toronto high schools on behalf of the Physics Department
- **Musical Minds Community Outreach:** 2023 - Present
 - Directing outreach for Musical Minds Community Outreach; volunteer instructor providing weekly piano lessons for children and youth
- **General Outreach:**
 - Volunteering for a handful of annual events such as Science Rendezvous, Doors Open, and the Ontario Universities Fair

SKILLS

Science Communication: Through activities and my coursework I communicate and present science topics during field trips and within TDSB and TCDSB schools:

- Talk Title: “How to Build a Supernova: A High School Introduction to Theoretical Astrophysics”
- Talk Title: “The Science of Sound: How to Make Scientifically Fire Beats!”
- Talk Title: “Super Massive Black Holes”

Project Management: Through activities at the University of Toronto, I coordinate and organize programs and events:

- Musical Minds Community Outreach: External Outreach Director
 - Maintaining relations with community partners and sponsors
 - Planning events, training, and lessons for instructors
- Coding the Cosmos: Materials Developer
 - Designing Python code notebooks on astronomy topics
 - Organizing camps and school field trips

Python: Data analysis and statistical methods. Large scale numerical analysis and image processing.

MATLAB: MathWorks-issued *Foundational MATLAB* certification.

LateX: Extensive experience in Overleaf environment using markdown and code, for publication writing.