DANIEL CHUI

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EDUCATION

University of Toronto   2021 - 2025
Honours Bachelors of Science - **Astronomy and Physics Specialist**, **Math Minor**
- Selected Coursework: Introductory and Advanced Physics and Math, Time Series Analysis
- Research:
  - Research course with a literature review investigating the impact of Interactive-Engagement on physics learning outcomes
  - RA for a curriculum study investigating the effectiveness of integrating ethics education within an introductory computer science course at the Faculty of Information

University of Toronto
Master of Teaching - **Intermediate/Senior**   2025 - Present
- Degree Expected: June 2027

WORK EXPERIENCE

Physics Library - Library Assistant (Work Study)   2023 - 2024
University of Toronto, ON
- Front desk: checking materials in and out, shelving, help desk
- Inventory: data entry, boxing and move materials for renovation

ACTIVITIES AND SOCIETIES

University of Toronto
- **Musical Minds Community Outreach**:   2023 - Present
  - Directing outreach; volunteer instructor for weekly piano lessons
- **Coding the Cosmos:**   2024 - 2025
  - Designing Python notebooks on astronomy concepts for high school students, organizing and running field trips on campus
- **Not Quite A Lecture:**   2024 - 2025
  - Giving lectures on physics and astrophysics in Toronto high schools on behalf of the physics department
- **General Outreach:**
  - Volunteering for a handful of annual STEM-based events such as Science Rendezvous, Doors Open, and the Ontario Universities Fair

SKILLS

Science Communication: Through many activities and my coursework I communicate and present science topics at all levels:
- Talk Title: "How to Build a Supernova: A High School Introduction to Theoretical Astrophysics"
- Talk Title: "The Science of Sound: How to Make Mathematically Fire Beats!"
- Python Notebook and Lecture: "An Introduction to Coding in Astronomy"
- Python Notebook and Lecture: "Super Massive Black Holes"

Project Management: 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 student instructors
- Coding the Cosmos: Materials Developer
  - Designing educational Python notebooks and presentations on astronomy topics
  - Organizing camps and school field trips
- Undergraduate Physics Colloquia Committee:
  - Inviting and scheduling speakers
  - Recording and streaming colloquia

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

MATLAB: MathWorks-issued *Foundational MATLAB* certification.

LateX: Extensive experience in Overleaf environment using markdown and code.