

Tom Wu

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EDUCATION

University of Toronto St. George

Toronto, Canada Sep. 2021 – May.2025

Astronomy & Physics Specialist, Computer Science Major with focus in scientific computing

National University of Singapore

Singapore May. 2023 – Jul.2023

Undergraduate Research Opportunities Program in Science

AWARDS & SCHOLARSHIPS

2023	The Regents In-course Scholarship
2023	Dean's List Scholar
2023	Undergraduate Summer Research Exchange Award
2022	The Regents In-course Scholarship
2022	Dean's List Scholar
2021	Regents Admission Scholarship
2020	IMMC Global Meritorious, Regional Outstanding

RESEARCH EXPERIENCE

AST430 Supervised Study in Astronomy and Astrophysics

Toronto, Canada

Supervisor: Prof. Maya Fishbach

Sep. 2023 – Present

- Focus on understanding black hole populations with gravitational waves and gamma-Ray burst
- Estimate binary black hole merger delay time distribution and spin dependence
- Attended graduate course to build up background knowledge
- Preparing a paper

Summer UROPS Research Exchange at NUS

Singapore

Supervisor: Prof. Alexey Berdyugin

May. 2023 – Jul. 2023

- Focused on studying the possibility of using Machine Learning techniques to find and map 2D materials exfoliated onto SiO₂ substrate
- Worked on building the software and hardware that enables the automatic mapping and recognition of exfoliated 2D materials Attended graduate course to build on background knowledge
- Assisted machine learning model training by operating microscopes to capture and label samples
- Constructed hardware with Arduino Controllers and 3D CAD modelling

ACADEMIC EXPERIENCE

Physics Second Year Learning Community

Toronto, Canada

Member

Sep. 2022 – Apr. 2023

- Contributed actively to bi-weekly discussions on Physics and study strategies
- Practiced communicating and collaborating skills in academics

Recognized Study Group

Toronto, Canada

Group Leader

Feb. 2022 – May. 2022

- Completed coordinated leader training
- Practiced coordinating and communicating skills in academics

PROGRAMMING LANGUAGE

Proficient	Python
Intermediate	Java
Basic Experience	MATLAB, C, R

Extracurricular Experience

MAH4 Floor Council

Toronto, Canada

Floor Vice President (yr 3)

Sep. 2023 – Present

Floor Vice President (yr 2)

Sep. 2022 – May. 2023

- Elected Vice President of the floor
- Organized and coordinated extracurricular activities

I was elected the Vice President of the residence floor I am currently living in; I organize student activities and help people when they need assistance. As one of the only two second year students here, I answered first-years' questions about UofT and share my experience with them.

AstroTour at the University of Toronto

Toronto, Canada

Volunteer

Nov. 2022 – Present

- Help setting up equipment and guide people
- Answer Astronomy-Related Questions from the public
- Interactive demo guide, Lab tour guide, Telescope tour guide

2023 Victoria College Orientation

Toronto, Canada

Orientation Leader

Sep. 2023

- Went through certified training
- Ran various activities during the Orientation