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

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

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 in Compact Objects Gravity, applied knowledge in the research project, proved by ability to comprehend advanced material
- Currently preparing a paper

Summer UROPS Research Exchange at NUS

Singapore

Supervisor: Prof. Alexey Berdyugin

May. 2023 – Jul. 2023

- Studied 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, the project saves time by automating the tedious flake search process.

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 in a group setting.

Recognized Study Group

Toronto, Canada

Group Leader

Feb. 2 022 – May.2022

- Completed certified leader training, systematically learned important aspects of working in an academic group.
- Displayed leadership and communication skills in a group of 8.

PROGRAMMING LANGAUGE

Proficient Python
Intermediate Java

Basic Experience MATLAB, C, R

EXTRACURRICULAR EXPERIENCE

MAH4 Floor CouncilToronto, CanadaFloor Vice President (yr 3)Sep. 2023 – PresentFloor Vice President (yr 2)Sep. 2022 – May. 2023

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

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

- Completed certified training, studied and tested communication skills
- Ran various activities during the Orientation, trained and served intensely for 95 hours within a week