

Feiyu Quan

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Education

University of Toronto Scarborough

Honours Bachelor of Science, Specialist Program in Physics and Astrophysics

GPA: 3.91/4.00

Fall 2019 – Present

Skills

Familiar with Python, Jupyter Notebook, \LaTeX and C. Interested in scientific computing and other computational aspects of physics.

Awards

University of Toronto Scarborough Dean's List

Fall 2020, Fall 2021

Research Experience

Research Assistant: Investigate the statistical properties of star-forming clouds

Fall 2021, Winter 2022

- The project goals are to investigate the statistical properties of star-forming clouds in our Galaxy, including gas densities, temperatures, and velocity structures, to compare these observed values with predictions from numerical simulations of how stars form. Supervisor: [Professor Rachel Friesen](#).

Research Project: Dynamical analysis of a recently discovered extra-solar planetary system using numerical tools

Summer 2021

- Analysis of planetary system TOI-1260. Supervisor: [Professor Hanno Rein](#).

Teaching Experience

Teaching Assistant: PHYA10, Physics I for the Physical Sciences

Fall 2021

- Facilitating a 2 hour practical session each week for approximately 20 students including working through problems in small groups, working on lab activities and demonstrating key problem solving methods. Managing detailed record of students performance and attendance.

Physics Tutor at Environmental and Physical Sciences Students' Association

Fall 2020, Winter 2021

- Physics tutor at UTSC EPSA, Physics Study Centre. Helping students understand concepts and solve problems in first-year physics (PHYA10/A11, PHYA21/A22).