Parker Levesque

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EDUCATION

UNIVERSITY OF TORONTO
2019 - 2023

HBSc, Department of Astronomy & Astrophysics, Specialist in Astrophysics and Minor in Mathematics

Sessional GPA: 4.0/4.0

THESIS:	*Calibrating MAPS's Adaptive Optics System*
SUPERVISOR:	Prof. Suresh Sivanandam

RESEARCH EXPERIENCE

Calibrating MAPS's Adaptive Optics System

University of Toronto — Current

Supervisor: Dr. Suresh Sivanandam

Simulating a closed-loop adaptive optics system as a means to calibrate the MMT's recently installed adaptive secondary mirror. Newly developed algorithms make use of empirical data and simulated data to calibrate the mirror.

Dragonfly Telephoto Array

University of Toronto, SURP — 2022

Supervisor: Dr. Roberto Abraham

Utilizing the image stabilization capabilities within each of the lenses of the Dragonfly telescope to allow for longer exposures, as well as creating infrastructure for reducing and visualizing data in order to assess the performance of the instrument.

AWARDS AND FELLOWSHIPS

Aurora Borealis Fellowship

University of Toronto, DADDAA — 2022

As part of the 2022 Summer Undergraduate Research Program.

Dean's List Scholar

University of Toronto — 2019 - 2022

For having a high qualifying GPA.

OSOTF Award

Innis College, University of Toronto — 2021 AND 2022

For outstanding academic performance and financial need.

Innis College Exceptional Achievement Award

Innis College, University of Toronto — Nov. 2020

For outstanding academic performance.

CONFERENCE TALKS

NSBP annual conference (invited)
2023

Data Organization for High Complexity Instruments

CASCA annual conference (invited)
2023

Upgrading MAPS's Adaptive Optics System

Conference Posters

Levesque, P. (2022). *Data Reduction and Visualization for the Dragonfly Telephoto Array. SUPR final poster presentations.*

Outreach

AstroTours 2022

Volunteer at University of Toronto's monthly AstroTours. Duties include setting up spaces for the event, guiding guests to each location on campus, verifying tickets and answering astronomy related questions.

Teaching Experience

Math and Physics Tutor 2020 - Present

Give one-on-one lessons, specific to each student's needs.
Create practice questions and review previous assignments.
Answer questions via E-mail.

Grants and Bursaries

UTAPS Grant 2021
University of Toronto

Media Appearances

Math & Physics Podcast 2020 - Present

Co-host of over one hundred episodes, covering all topics in the math and physics world.
Amassed over 50,000 followers and 650,000 downloads.
Spoken to dozens of researchers and professors about their careers and current work.