

Charmi Bhatt

github.com/charmi-bhatt | [linkedin.com/in/charmi-bhatt](https://www.linkedin.com/in/charmi-bhatt) | <https://charmibhatt.com/>

EDUCATION

University of Western Ontario, Canada PhD Astronomy	Jan 2023 - present
University of Western Onatrio, Canada MSc Astronomy	Sep 2021 - Dec 2022
Swarnim Startup and Innovation University, India BSc Physics	Aug 2018 - Jun 2021

RESEARCH EXPERIENCE

University of Western Ontario Graduate Research Assistant	Sep 2021 - present Canada
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- Develop a Python scripts to conduct line profile simulations for diffuse interstellar bands.
- Perform data reduction of JWST K giant observations for optimized analysis.

Society for Space Education, Research, and Development Astrophysics Research Intern	Sep 2020 - Oct 2020 India
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- Responsible for target selection for Exomoon systems.
- Developed python code for curve fitting.

Junior Academy, New York Academy of Sciences Research Team Leader, Colonizing Moon	Oct 2019 - Dec 2019 USA
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- Designed Satellite for energy generation from solar winds on Moon.

Junior Academy, New York Academy of Sciences Research member, Aerospace technology	Oct 2018 - Dec 2018 USA
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- Improved design of Airplanes to reduce fuel consumption.

TEACHING EXPERIENCE

University of Western Ontario Graduate Teaching Assistant	Sep 2021 - present Canada
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- Tutored "Numerical methods in Mathematics" course

Starquest, Navars Edutech Astronomy Educator	July 2021 - Sept 2021 India
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- Instructed Junior Astronomy Course (Grade 1 to 4) and Basic Astronomy Course (Grade 5 to 9)

Starquest, Navars Edutech Astronomy Instructor	Aug 2020 - Jun 2021 India
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- Designed and delivered a seven-day course on "Introduction to Exoplanets" for students of grades 5 to 12

SCIENCE COMMUNICATION EXPERIENCE

Cronyn Observatory, University of Western Ontario

Outreach Assistant

Nov 2021 - present
Canada

- Coordinating Exploring the Stars program (Educational public outreach program.)
- Co-organizing public astronomy events
- Responsible for moderating website and social media channels.

Indian Institute of Science Education and Research, Pune, India

Science Communication Intern

Sep 2019 - Oct 2019
India

- Interviewed Researchers, Narrated, Animated and Produced Science Videos

Breakthrough Junior Challenge

International Outreach Video Competition

June 2019

- Ranked in Top 10% - designed, animated and narrated video explaining Exoplanets and their detection techniques.

VOLUNTEER EXPERIENCE

Western Space Graduate Council, University of Western Ontario

Treasurer

July 2022 - present
Canada

- Manage and oversee the financial resources of the graduate council
- Contribute to Departmental Science Communication activities at STEM events and festivals.

Physics and Astronomy Graduate Council, University of Western Ontario

Faculty Meeting representative

July 2022 - present
Canada

Space as a National Asset for Canada 2022 Conference

Social Media coordinator

November 2022
Canada

Star Night, Division for Planetary Sciences Annual Meeting

Telescope Operator

October 2022
Canada

Stardust STEM festival

Telescope Operator

August 2022
Canada

Science Olympics, University of Western Ontario

Astronomy Triathlon Lead

May 2023
Canada

WORKSHOPS AND SUMMER SCHOOL

Code/Astro Workshop, Caltech

June 2022

Sagan Exoplanet Summer Workshop, Caltech

July 2020

PHASE 2020, Indo-Uk workshop, IIT Gandhinagar

Jan 2020

Presentation Skills in Academia, IISER Pune

Oct 2019

CONFERENCES AND TALKS

Invited Speaker for "How to Increase Women in STEM" at National Science Day, IARF

Feb 2019

Won 3rd Prize in Poster Presentation on ChemCam instrument on Curiosity rover

Jan 2019

Won 1st prize in Oral presentation on Physics behind finding Exoplanets

Jan 2019

AWARDS AND HONOURS

Member of the Junior Academy Alumni, New York Academy of Sciences

Ranked Top 10% in Breakthrough Junior Challenge video competition

Awarded 50% scholarship in High School