

Xiaoyi Ma

xiaoyima@uvic.ca

EDUCATION

University of Victoria

Master of Science

Jan 2023 - Present

Victoria, Canada

University of Toronto

Honours Bachelor of Science with High Distinction

June 2021

Toronto, Canada

Astronomy & Physics Specialist, Physics Specialist, Mathematics Minor

AWARDS

- 2023 Best poster from the Board - Canadian Astronomical Society (CASCA) Annual General Meeting
- 2023 Graduate Award - University of Victoria
- 2021 College Sliver Medal - St. Michael's College, University of Toronto
- 2021, 2020, 2019, 2018 Dean's List Scholar - University of Toronto
- 2019 John J Sebisty Scholarship - St. Michael's College, University of Toronto
- 2019 Vincent Wroblewski Memorial Bursary - St. Michael's College, University of Toronto

RESEARCH EXPERIENCE

Visiting Student

Department of Astronomy, Peking University

Supervisor: Dr. Pinghui Huang

Topic: Vortex-induced Rings and Gaps in Protoplanetary Disk — *Paper in Preparation*

Sep 2022 – Dec 2022

Beijing, China

Research Assistant

Department of Astronomy, Tsinghua University

Supervisor: Dr. Wei Zhu, Dr. Pinghui Huang

Topic: Detecting Stellar-mass Black Hole Binaries via Gravitational Microlensing — *Paper Published*

Topic: Post-process Hydrodynamic Simulation to Generate Synthetic Images of the Dust Continuum Emission.

Aug 2021 – June 2022

Beijing, China

Undergraduate Research Student

Department of Astronomy & Astrophysics, University of Toronto

Supervisor: Dr. Adam Hincks

Topic: Short-term Variability of Point Sources by The Atacama Cosmology Telescope — *Paper in Preparation*

Oct 2020 – Jun 2021

Toronto, Canada

Summer Research Student

CITA, University of Toronto

Supervisor: Dr. Wei Zhu

Topic: Detecting Stellar-mass Black Hole Binaries via Gravitational Microlensing

May 2020 – Aug 2020

Toronto, Canada

Summer Research Student

Department of Physics, Tsinghua University

Supervisor: Dr. Xiaofeng Wang

Topic: Absolute Magnitude Distribution of Several Types of Supernova.

July 2019 – Aug 2019

Beijing, China

PUBLICATIONS

- *Identification of stellar-mass black hole binaries and the validity of linear orbital motion approximation in microlensing*, **Xiaoyi Ma**, Wei Zhu and Hongjing Yang, 2022, MNRAS, 513, 5088
(<https://arxiv.org/abs/2111.11059>)

CONFERENCES AND PRESENTATIONS

Emerging Researchers in Exoplanet Science Symposium (ERES) <i>Oral Presentation - Vortex-induced rings and gaps in a protoplanetary disk</i>	June 2023 New Haven, USA
Canadian Astronomical Society (CASCA) Annual General Meeting <i>Poster Presentation - Vortex-induced rings and gaps in a protoplanetary disk</i>	June 2023 Penticton, Canada
Athena++ Workshop <i>Oral Presentation - Vortex-induced rings and gaps in a protoplanetary disk</i>	May 2023 New York, USA
Annual Atacama Cosmology Telescope Collaboration Meeting <i>Oral Presentation - AGN: Short-Term Variability of Bright Point Sources</i>	Oct 2022 Remote
Protoplanetary Disk and Planet Formation Summer School <i>Oral Presentation - Vortex Induced Rings and Gaps</i>	Aug 2022 Beijing, China
Chinese Astronomical Society Annual Meeting <i>Oral Presentation - Detecting Stellar-mass Black Hole Binaries via Gravitational Microlensing</i>	Dec 2021 Remote
Annual Atacama Cosmology Telescope Remote Meeting <i>Oral Presentation - Source and Transient: AGN Variability (with Dr. Adam Hincks)</i>	July 2021 Remote
Annual Canadian Conference for Undergraduate Women in Physics (CCUWiP) <i>Delegate</i>	Jan 2021 Toronto, Canada
Student Summer Research Program (SURP)(University of Toronto) <i>Poster Presentation - Finding Binary Black Holes with Gravitational Microlensing</i>	Aug 2020 Toronto, Canada
Annual Canadian Conference for Undergraduate Women in Physics (CCUWiP) <i>Delegate</i>	Jan 2020 Toronto, Canada

OUTREACH

International Astronomy Day <i>Oral Presentation - Hunting Exoplanets</i> (Royal Astronomical Society of Canada (RASC), University of Victoria Department of Physics)	May 2023 Victoria, Canada
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REFERENCES

- Dr. Ruobing Dong – Research Supervisor**
Physics and Astronomy Department, University of Victoria
Email: rbdong@uvic.ca
- Dr. Adam Hincks – Former Research Supervisor**
Department of Astronomy and Astrophysics, University of Toronto
Email: adam.hincks@utoronto.ca
- Dr. Wei Zhu – Former Research Supervisor**
Department of Astronomy, Tsinghua University
Email: weizhu@mail.tsinghua.edu.cn