

SOLVEIG THOMPSON

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Publications \diamond Github \diamond LinkedIn

EDUCATION

University of Calgary

September 2028 (anticipated)

PhD in Astrophysics

Related courses: Data Analysis, Computational Physics III

University of Calgary

September 2024

M.S. in Astrophysics

University of Calgary

June 2022

B.S. in Astronomy

PUBLICATIONS

- [1] B. Tahmasebzadeh, M. A. Taylor, M. Valluri, *et al.*, “A JWST View of the Overmassive Black Hole in NGC 4486B,” *arXiv e-prints*, arXiv:2505.14676, arXiv:2505.14676, May 2025. arXiv: 2505.14676.
- [2] M. A. Taylor, B. Tahmasebzadeh, **Thompson, Solveig**, *et al.*, “A Supermassive Black Hole in a Diminutive Ultra-compact Dwarf Galaxy Discovered with JWST/NIRSpec+IFU,” *arXiv e-prints*, arXiv:2503.00113, Feb. 2025. arXiv: 2503.00113.
- [3] B. Tahmasebzadeh, A. Lapeer, E. Vasiliev, M. Valluri, M. A. Taylor, and **Thompson, Solveig**, “The Lower Limit of Dynamical Black Hole Masses Detectable in Virgo Compact Stellar Systems Using the JWST/NIRSpec IFU,” *ApJ*, 2024.

ACHIEVEMENTS

Alberta Graduate Excellence Scholarship, \$11,000

August 2024

PHAS Internal Award, \$275

March 2023

Alexander Rutherford Scholarship \$2500

September 2017

Jason Lang Scholarship \$1000

September 2018

PRESENTATIONS

Hide and Seek: A Census of Black Holes in Virgo UCDs

June 6, 2024

12-minute Contributed Talk: CASCA AGM, Toronto, Canada

Black Holes Have Middle Child Syndrome: A Census of Black Holes in Virgo Ultra-Compact Dwarf Galaxies

February 20, 2024

12-minute Contributed Talk: PHAS Symposium, Calgary, Canada

Detecting Intermediate Mass Black Holes with JWST

Oct 29-November 3 2023

10-minute Invited Talk: BIRS Astrostatistics in Canada and Beyond, Banff

Searching for Intermediate Mass Black Holes Using the James Webb Space Telescope 4-7 July 2023

9-minute Contributed Talk: Women in Physics, Winnipeg

The Hunt for Intermediate Mass Black Holes Using the James Webb Space Telescope

12-16 June 2023

9-minute Contributed Talk: CASCA 2023, Penticton

The Hunt for Intermediate Mass Black Holes

April 22 2023

Public Talk: Rothney Astrophysical Observatory, Calgary, Canada

Black Holes Have Middle Child Syndrome: The Hunt for Intermediate Mass Black Holes

March 20 2023

Contributed Talk: 3 Minute Thesis Competition, Calgary, Canada

Black Holes Have Middle Child Syndrome: The Hunt for Intermediate Mass Black Holes

February 20 2023

9-minute Contributed Talk: PHAS Symposium, Calgary, Canada

Hunting for Exoplanets

April 23 2022

Public talk: Rothney Astrophysical Observatory, Calgary, Canada

VOLUNTEER WORK

CASCA GSC

2023-Present

PHAS Choice

2024-2025

Ringette Coach

2016-Present

TEACHING EXPERIENCE

ASPH 401 (Galactic Astrophysics) Teaching Assistant

Fall 2022-Fall 2024

PHYS 259 (Electromagnetism for Engineers) Lab Teaching Assistant

Winter 2025

ASTR 209 (Introduction to Astronomy II) Teaching Assistant

Winter 2024

ASPH 403 (Stellar Astrophysics) Teaching Assistant

Winter 2023

ASPH 307 (Observational Astrophysics) Teaching Assistant

Winter 2023

SKILLS

Programming Languages
Soft

Python, LaTeX, C, Mathematica

Problem-solving, collaboration, oral and written communication,
critical thinking