

# Fletcher Waller

---

**Institution** MSc student  
University of Victoria  
Victoria, BC, CA  
**Email** wallerd@uvic.com  
**Website** www.fletcher.science

## work experience

**2022-now** **NTCO Intern**, - Gemini South, Chile  
**Advisors:** Dr. Venu Kalari and Dr. Kim Venn  
GHOST instrument commissioning and Data Reduction

**2021-now** **Graduate Research Assistant**, - University of Victoria, BC  
**Advisors:** Dr. Kim Venn and Dr. Alan McConnachie  
Chemical abundances of metal-poor stars in Ultra-Faint Dwarf galaxies

**2020** **Undergraduate Co-op Research Assistant**, - University of Victoria, BC  
**Advisor:** Dr. Kim Venn  
Chemical abundances of metal-poor stars in the Milky Way galactic bulge

**2019-2020** **Grocery Supervisor**, - Root Cellar Village Green Grocer, BC  
Ran the grocery department of a locally-owned grocer

**2018** **Undergraduate Co-op Research Assistant**, - NRC Herzberg, BC  
**Advisor:** Dr. Sam Lawler  
n-body simulations of radiation pressure and planetary gravitational effects on dust disks

## education

**2021-now** **MSc**, Astronomy - University of Victoria, BC  
**Advisor:** Dr. Kim Venn

**2016-2020** **BSc**, Physics and Astronomy, - University of Victoria, BC  
- with 8 months of full-time research co-ops

**2014-2016** **BMus**, Music Education & Performance (incomplete), - University of Victoria, BC

## outreach

**2020 & 2021** **Volunteer** Astronomy Open House, University of Victoria

## service

**2022** **Moderator** Queer Housing Victoria Facebook Group

**2021** **Code of Conduct Writing** Undergraduate Physics and Astronomy Course Union, UVic

**2021** **Online Seminar Technical Hosting** Stellar Seminars, UVic

**2021** **LGBTQ+ Advocacy** for gender-neutral washrooms, Facilities Management, UVic

**2020 & 2021** **Discord Moderator & Admin** Undergraduate Physics and Astronomy Course Union, UVic

**2020** **Land-Acknowledgement Co-Writing** Undergraduate Physics and Astronomy Course Union, UVic

**2017** **Music Day Camp Organizing** for middle-school students, UVic

**2016 & 2017** **Student Council Member** Music Education Course Union, UVic

## teaching experience

- 2021-2022**    **Lab Instructor**, Physics and Astronomy Dept., University of Victoria  
*Phys 110, Astr 101*
- 2018**            **Tutoring**, Horizons  
*math & writing, ages 11-17*
- 2015**            **Private Music Lessons**, self-employed  
*tuba & musicianship*
- 2012-2017**    **Brass Musical Instrument Instructor**, middle- and elementary-schools  
*tuba, trombone, baritone*

## conferences and workshops

- 2022**            SPIE 2022 - Montreal  
**Poster:** The Gemini-south High-resolution Optical SpecTrograph (GHOST) data reduction system  
**Course:** Introduction to Visible and NIR Spectrograph Design and Development for Astronomy
- 2022**            CASCA 2022 - remote  
**Poster:** New Members in the Outskirts of Ultra-Faint Dwarf Galaxies
- 2021**            Dunlap Instrumentation Summer School - remote
- 2021**            AAS 238 Summer Meeting - remote
- 2021**            CASCA 2021 - remote  
**Poster:** GRACES Hi-Res Spectroscopic Chemical Abundances in Ultra-Faint Dwarf Galaxies
- 2020**            CASCA 2020 - remote  
**Poster:** Gemini GRACES spectra of extremely metal-poor stars in the Galactic Bulge
- 2018**            Astronomy NWxSW, UBC  
**Talk:** Dynamical Simulations of Fomalhaut's Dust Ring with CANFAR and REBOUND
- 2018**            CASCA 2018 -Victoria, BC

## honors and awards

- **2021-2022, Graduate Award, University of Victoria**
- **2020, USRA, University of Victoria**
- **2019, Miranda Ward Physics Award, University of Victoria**
- **2016-2020, Odd Fellows Bursary, University of Victoria**
- **2015, Mary M. Erich P. Schwandt Award, University of Victoria**
- **2014, University of Victoria Entrance, University of Victoria**

## interests

- **Astronomy-themed cross-stitch and crochet**