
Canadian Institute for Theoretical Astrophysics, 60 St George St, Toronto, ON M5S 3H8, Canada
 jdewberry@cita.utoronto.ca \diamond US Citizen

RESEARCH INTERESTS

Astrophysical fluid dynamics, magnetohydrodynamics, accretion disk dynamics, stellar and planetary astrophysics, asteroseismology, Saturn ring seismology

PROFESSIONAL EXPERIENCE

- **Postdoctoral Fellow**
09/2020–Present
 Canadian Institute for Theoretical Astrophysics (CITA)
- **Visiting Research Associate**
11/2019–09/2020
 Cornell University
- **Postdoctoral Fellow**
09/2019–08/2020
 Tsung-Dao Lee Institute, Shanghai Jiao Tong University

EDUCATION

- **University of Cambridge**, United Kingdom
2014–2019
 MAST (\sim MSci), PhD in Applied Mathematics and Theoretical Physics
 Advisors: Henrik Latter (primary), Gordon Ogilvie (secondary)
 Thesis: “Hydromagnetic Oscillations and Instabilities in Astrophysical Discs”
- **University of Arizona**, Tucson, AZ
2013–2014
 PhD student in Applied Mathematics (transferred to Cambridge)
- **Vassar College**, Poughkeepsie, NY
2009–2013
 B.A. in Astronomy and Mathematics (with Honors), minor in Physics
 Advisor: Debra Elmegreen

PUBLICATIONS

- Dewberry, J., Latter, H. N., Ogilvie, G. I., Fromang, S. “*HFQPOs and discoseismic mode excitation in eccentric, relativistic discs. II. Magnetohydrodynamic simulations.*” 2020, MNRAS, 497:451
- Dewberry, J., Latter, H. N., Ogilvie, G. I., Fromang, S. “*HFQPOs and discoseismic mode excitation in eccentric, relativistic discs. I. Hydrodynamic simulations.*” 2020, MNRAS, 497:435
- Dewberry, J., Latter, H. N., Ogilvie, G. I. “*Quasi-periodic oscillations, trapped inertial waves and strong toroidal magnetic fields in relativistic accretion discs.*” 2019, MNRAS, 483:1609
- Dewberry, J., Latter, H. N., Ogilvie, G. I. “*Quasi-periodic oscillations and the global modes of relativistic, MHD accretion discs.*” 2018, MNRAS, 476:4085

- Elmegreen, B., Elmegreen, D., Almeida, J., Muñoz-Tuñón, C., **Dewberry, J.**, Putko, J., Teich, Y., Popinchalk, M. “*Massive clumps in local galaxies: Comparisons with high-redshift clumps.*” 2013, ApJ, 774:86
- Elmegreen, D., Elmegreen, B., Almeida, J., Muñoz-Tuñón, C., Putko, J., **Dewberry, J.** “*Local tadpole galaxies.*” 2012, ApJ, 750:95

CONFERENCES AND TALKS

Talks

- **Department of Astronomy Colloquium** 06/2020
Shanghai Jiao Tong University
- **Astrophysics Lunch** 11/2019
Cornell University
- **AAS Meeting 233** (Dissertation Presentation) 01/2019
Seattle, WA
- **Santa Barbara Astro Lunch** 10/2018
UC Santa Barbara
- **UCSC Geophysical and Astrophysical Fluid Dynamics Seminar** 10/2018
UC Santa Cruz
- **Theoretical Astrophysics and Relativity (TAPIR) Seminar** 10/2018
Caltech
- **Planets, Stars and Discs: A Golden Age for Particle and Gas Dynamics** 07/2018
University of Oxford
- **Institute of Astronomy X-ray Astronomy Group Seminar** 03/2018
University of Cambridge

Poster Presentations

- **Simulations and Modelling of Relativistic MHD Accretion Discs** 07/2016
University of Oxford
- **Astro Fluid 2016** 07/2016
IAP, Paris, France

FELLOWSHIPS AND AWARDS

- Tsung-Dao Lee Prize Postdoctoral Fellow 2019–Present
- Cambridge Philosophical Society Studentship 2019
- Smith-Knight and Rayleigh-Knight Prize (rank 2 awardee) 2017
- Cambridge International Scholar 2015–2018
- De Golier Fellow 2013–2018
- De Golier Prize (highest GPA in undergraduate class) 2012

PUBLIC ENGAGEMENT AND ACADEMIC SERVICE

Academic service

- **Undergraduate supervisor** 2017–2018
University of Cambridge (supervised undergrads in physics/astrophysics)
- **Academic officer** 2016–2017
Churchill College, Cambridge (organized weekly academic talks, annual symposium)
- **Observatory assistant** 2009-2010
Vassar College Observatory (telescope operation, open night presentations)

Public speaking

- “*Observing black holes*” 09/2019
Panel participant, Caltech Stargazing and Lecture Series
- “*Astrophysical accretion disks: waves and instabilities*” 04/2018
Speaker, Churchill College CHUTalk Seminar Series, Cambridge
- “*Trapped waves and magnetic fields in relativistic accretion disks*” 11/2016
Speaker, Cambridge Department of Mathematics Open Day

Volunteering

- Volunteer at the Los Angeles branch of Astronomy on Tap 2019
- Volunteer at the Caltech Stargazing and Lecture Series, 2019
- Tour guide for the Cambridge Department of Mathematics 2017–2018
- Volunteer at the University of Cambridge Open Day 2017–2018
- Visiting scientist at the Montessori School of Beaverton 2013-2019