

# Dr. Emily Deibert

## Gemini Science Fellow

Gemini Observatory/NSF's NOIRLab  
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## Academic Positions

### Postdoctoral Science Fellow

2022 – Present

Gemini Observatory/NSF's NOIRLab

## Education

### University of Toronto

2017 — 2022

PhD in Astronomy & Astrophysics

Advisors: Prof. Suresh Sivanandam, Prof. Ray Jayawardhana

### University of Toronto, Victoria College

2012 — 2017

HBSc. in Astrophysics, English, and Mathematics (*High Distinction*)

Advisor: Prof. Chris Matzner

## Refereed Publications

### First Author .....

1. **Deibert**, de Mooij, Jayawardhana, et al., “ExoGemS High-Resolution Transmission Spectroscopy of WASP-76b with GRACES”, 2023, [AJ](#), **166**, 141.
2. **Deibert**, de Mooij, Jayawardhana, et al., “Detection of Ionized Calcium in the Atmosphere of the Ultra-Hot Jupiter WASP-76b”, 2021, [ApJL](#), **919**, L15.
3. **Deibert**, de Mooij, Jayawardhana, et al., “A Near-Infrared Chemical Inventory of the Atmosphere of 55 Cancri e”, 2021, [AJ](#), **161**, 209.
4. **Deibert**, de Mooij, Jayawardhana, et al., “High-resolution Transit Spectroscopy of Warm Saturns”, 2019, [AJ](#), **157**, 58.

### Contributing Author .....

5. Placco et al. incl. **Deibert**, “SPLUS J1424-2542: An R-Process Enhanced, Extremely Metal-Poor star observed with GHOST”, 2023, [ApJ](#), **959**, 60.
6. Dovgal et al. incl. **Deibert**, “Probing the early Milky Way with GHOST spectra of an extremely metal-poor star in the Galactic disk”, 2023, [submitted to MNRAS](#).
7. Flagg, Turner, **Deibert**, et al. “ExoGems Detection of a Metal Hydride in an Exoplanet Atmosphere at High Spectral Resolution”, 2023, [ApJL](#), **953**, 19.
8. Allart et al. incl. **Deibert**, “Homogeneous search for helium in the atmosphere of 11 gas giant exoplanets with SPIRou”, 2023, [accepted by A&A](#).
9. Bolin et al. incl. **Deibert**, “Keck, Gemini, and Palomar 200-inch visible photometry of red and very-red Neptunian Trojans”, 2023, [MNRAS Letters](#), **521**, 29.
10. Ridden-Harper et al. incl. **Deibert**, “High-Resolution Transmission Spectroscopy of the Terrestrial Exoplanet GJ 486b”, 2023, [AJ](#), **165**, 170.

11. Sivanandam et al. incl. **Deibert**, “Astrophotonic Solutions for Spectral Cross-Correlation Techniques”, 2022, [SPIE Proceedings](#).
12. Boucher et al. incl. **Deibert**, “Characterizing Exoplanetary Atmospheres at High Resolution with SPIRou: Detection of Water on HD 189733 b”, 2021, [AJ](#), **162**, 223.
13. Jindal, de Mooij, Jayawardhana, **Deibert**, et al., “Characterization of the Atmosphere of Super-Earth 55 Cancri e Using High-resolution Ground-based Spectroscopy”, 2020, [AJ](#), **160**, 101.
14. Petrovich, **Deibert**, & Wu, “Ultra-Short-Period Planets from Secular Chaos”, 2019, [AJ](#), **157**, 180.
15. Huang, Petrovich, & **Deibert**, “Dynamically Hot Super-Earths from Outer Giant Planet Scattering”, 2017, [AJ](#), **153**, 5.
16. Percy & **Deibert**, “Studies of the Long Secondary Periods in Pulsating Red Giants”, 2016, [JAAVSO](#), **44**, 2.

## Fellowships & Awards

<b>Chorafas Foundation Prize</b>	2023
Dimitris M. Chorafas Foundation	
<i>\$ 5000</i>	
<b>NSERC Postdoctoral Fellowship</b>	2022 — 2024
NSERC	
<i>\$ 90,000</i>	
<b>Vanier Canada Graduate Scholarship</b>	2019 — 2022
NSERC/University of Toronto	
<i>\$ 150,000</i>	
<b>Fieldus Award</b>	2021 – 2022
Department of Astronomy & Astrophysics, University of Toronto	
<i>\$ 1000</i>	
<b>Dean’s Doctoral Award of Excellence</b>	2020
Faculty of Arts & Sciences, University of Toronto	
<i>\$ 10,000</i>	
<b>Alumni Association Scholar (Graduate)</b>	2020
University of Toronto	
<i>\$ 1000</i>	
<b>Astronomy &amp; Astrophysics Graduate Program Award</b>	2020
University of Toronto	
<i>\$ 1000</i>	
<b>NSERC Canada Graduate Scholarship - Doctoral</b>	2019 — 2022 (Declined)
NSERC/University of Toronto	
<i>\$ 105,000</i>	
<b>Faculty of Arts &amp; Sciences Program-Level Fellowship</b>	2018 — 2020
University of Toronto	
<i>\$ 2300</i>	
<b>NSERC Canada Graduate Scholarship - Master’s</b>	2018 — 2019
NSERC/University of Toronto	
<i>\$ 17,500</i>	

<b>U of T Fellowship, Faculty of Arts &amp; Sciences</b> University of Toronto \$ 12,375	2017 — 2018
<b>Ontario Graduate Scholarship</b> OGS/University of Toronto \$ 15,000	2017 — 2018
<b>Faculty of Arts &amp; Sciences Graduate Admissions Fellowship</b> University of Toronto \$ 5000	2017 — 2018
<b>Alumni Association Scholar (Undergraduate)</b> University of Toronto \$ 1000	2017
<b>Highly Commended (Literature)</b> The Undergraduate Awards	2017
<b>Summer Undergraduate Research Fellowship</b> University of Toronto \$ 10,000	2016
<b>Gerald Allen Hollingshead Memorial Scholarship</b> University of Toronto \$ 20,000	2012 — 2016
<b>Summer Undergraduate Research Fellowship</b> Canadian Institute for Theoretical Astrophysics \$ 8000	2015
<b>The Arthur Irwin Prize</b> Victoria College \$ 1000	2014
<b>Dr John Knowles Colling Memorial Scholarship</b> Victoria College \$ 585	2013
<b>Faculty of Arts &amp; Sciences Entrance Scholarship</b> University of Toronto \$ 2000	2013
<b>University of Toronto Scholars Award</b> University of Toronto \$ 5000	2012

## Conference Presentations & Seminars

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1. “*The Gemini High-Resolution Optical SpecTrograph (GHOST) and Future Instrumentation at the International Gemini Observatory*”, Invited Plenary Talk, **Brazil Astronomical Society Annual Meeting**, Rio de Janeiro, Brazil (October 2023).
2. “*High-Resolution Spectroscopy of Exoplanet Atmospheres with GRACES/Gemini North*”, Contributed Talk, **CASCA 2023 Meeting**, University of British Columbia Okanagan, Penticton, Canada (June 2023).
3. “*Results from the Exoplanets with Gemini Spectroscopy (ExoGems) Survey*”, Contributed Talk, **SOCHIAS Annual Meeting**, Universidad de la Frontera, Temuco, Chile (March 2023).

4. “*Updates on the Gemini High-resolution Optical SpecTrograph (GHOST)*”, Contributed Talk, **SOCHIAS Annual Meeting**, Universidad de la Frontera, Temuco, Chile (March 2023).
5. “*Astrophotonics Solutions for Spectral Cross-Correlation Techniques*”, Contributing Author on Talk by Suresh Sivanandam, **SPIE 12184**, Montreal, Canada (July 2022).
6. “*Results from the ExoGemS Survey*”, Contributing Author on Talk by Laura Flagg, **Exoplanets 4**, Las Vegas/AAS (June 2022). *Proceedings*: Bulletin of the AAS, [54](#), [5](#), [#102.412](#).
7. “*The Extreme Atmosphere of an Exotic World: Detection of Ionized Calcium in WASP-76b*”, Dissertation Talk, **53rd Annual Meeting of the AAS Division for Planetary Sciences (DPS)**, Virtual/AAS (October 2021). *Proceedings*: Bulletin of the AAS, [53](#), [7](#), [#302.04D](#).
8. “*A Near Infrared Chemical Inventory of the Atmosphere of 55 Cancri e*”, Contributed Talk, **Emerging Researchers in Exoplanetary Sciences (ERES) 2021**, Virtual/Princeton University, USA (May 2021).
9. “*A Near Infrared Chemical Inventory of the Atmosphere of 55 Cancri e*”, Invited Seminar, **APEx ExoCoffee**, Max Planck Institute for Astronomy, Heidelberg, Germany (March 2021).
10. “*Remote Sensing of Extreme Worlds: High-Resolution Spectroscopy of Exoplanet Atmospheres*”, Contributing Author on Talk by Ray Jayawardhana, **Extreme Solar Systems IV**, Reykjavik, Iceland (August 2019). *Proceedings*: AAS Extreme Solar Systems, [51](#), [201.01](#).
11. “*High-Resolution Spectroscopy of Exoplanet Atmospheres*”, Contributed Talk, **ERES V**, Cornell University, USA (June 2019).
12. “*High-Resolution Ground-Based Transmission Spectroscopy of Warm Saturns*”, Contributed Talk, **ERES IV**, Penn State University, USA (June 2018).
13. “*High-Resolution Ground-Based Transmission Spectroscopy of Warm Saturns*”, Contributed Talk, **Technologies for ExoPlanetary Sciences (TEPS) 2018**, University of British Columbia, Canada (May 2018).
14. “*High-Resolution Ground-Based Transmission Spectroscopy of Warm Saturns*”, Contributed Talk, **The Canadian Astronomical Society (CASCA) 2018 Meeting**, University of Victoria, Canada (May 2018).
15. “*Detached Ultra-Short Period Planets from Secular Chaos*”, Contributed Talk, **Diversis Mundi: The Solar System in an Exoplanetary Context**, ESO Santiago, Chile (March 2018). *Proceedings*: [10.5281/zenodo.1317487](#).
16. “*Detached Ultra-Short Period Planets from Secular Chaos*”, Invited Seminar, **Stars & Planets Seminar Series**, Canadian Institute for Theoretical Astrophysics, Toronto, Canada (March 2018).
17. “*Ultra-Short Period Planets*”, Invited Seminar, **Centre for Planetary Sciences Seminar Series**, University of Toronto Scarborough, Canada (March 2018).
18. “*Long Secondary Periods of Pulsating Red Giant Stars*”, Contributed Talk, **Canadian Conference for Undergraduate Women in Physics**, Dalhousie University, Canada (January 2016).

## Conference Posters

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1. “*A Near-Infrared Chemical Inventory of the Atmosphere of 55 Cancri e*”, Contributed Poster, **CASCA 2021 Meeting**, Virtual/University of British Columbia, Canada (June 2021).
2. “*A Near-Infrared Chemical Inventory of the Atmosphere of 55 Cancri e*”, Contributed Poster, **Exoplanets III**, Virtual/Heidelberg, Germany (July 2020).
3. “*A Near-Infrared Chemical Inventory of the Atmosphere of 55 Cancri e*”, Contributed Poster, **CASCA 2020 Meeting**, Virtual/York University, Canada (June 2020).
4. “*Near-Infrared Transit Spectroscopy of 55 Cancri e*” Contributed Poster, **Extreme Solar Systems IV**, Reykjavik, Iceland (August 2019). *Proceedings: AAS Extreme Solar Systems*, [51](#), [327.03](#).
5. “*One Hit Wonders: Recovering the Longest Period TESS Planets*”, Contributing Author on Poster by Carl Ziegler, **Extreme Solar Systems IV**, Reykjavik, Iceland (August 2019). *Proceedings: AAS Extreme Solar Systems*, [51](#), [302.01](#).
6. “*Investigating the Presence of HCN in the Atmosphere of 55 Cancri e*”, Contributed Poster, **ExoClimes V**, University of Oxford, UK (August 2019).
7. “*Characterizing the Atmosphere of HAT-P-12b with Transmission Spectroscopy*”, Contributed Poster, **Women in Planetary Science and Exploration**, University of Toronto, Canada (March 2018).
8. “*Dynamically Hot Super-Earths from Outer Giant Planet Scattering*”, Contributed Poster, **Canadian Conference for Undergraduate Women in Physics**, McMaster University, Canada (January 2017).
9. “*Investigating Long Secondary Periods of Pulsating Red Giant Stars*”, Contributed Poster, **Department of Physics Undergraduate Research Fair**, University of Toronto, Canada (April 2016).

## Observing Proposals

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Principal Investigator .....	
<i>A Comparative Study of Ultra-Hot Jupiter Dayside Atmospheres</i>	2024A
GHOST/Gemini South	
20.8 Hours	
<i>Completing the Picture: Dayside Spectroscopy of an Ultra-Hot Jupiter Atmosphere</i>	2024A
GHOST/Gemini South	
5.3 Hours	
<i>High-Resolution Spectroscopy of Hot Exoplanet Atmospheres</i>	2023A
GHOST/Gemini South	
3 Hours ( <i>System Verification</i> )	
<i>Chemical Gradients &amp; Heat Transport in an Ultra-Hot Jupiter Atmosphere</i>	2022B
MAROON-X/Gemini North	
4 Hours ( <i>Fast Turnaround</i> )	

<b><i>Molecular Signatures in the Dayside Emission of an Ultra-Hot World</i></b>	2022B
SPIRou/CFHT	
20 Hours	
<b><i>Detecting the Magnetic Field of a Hot Jupiter via Spectropolarimetry</i></b>	2022B
SPIRou/CFHT	
12 Hours ( <i>Followup to 2020A/2021B Proposals</i> )	
<b><i>First Detailed Characterization of an Exceptional New Earth-Sized World</i></b>	2021B
SPIRou/CFHT	
2.5 Hours ( <i>Ranked #1 of 39 by CanTAC</i> )	
<b><i>Detecting the Magnetic Field of a Hot Jupiter via Spectropolarimetry</i></b>	2021B
SPIRou/CFHT	
12 Hours ( <i>Followup to 2020A Proposal</i> )	
<b><i>Detecting the Magnetic Field of a Hot Jupiter via Spectropolarimetry</i></b>	2020A
SPIRou/CFHT	
20 Hours ( <i>Ranked #1 of 40 by CanTAC</i> )	
<b><i>Constraining the Ephemerides of a New Young Planetary System</i></b>	Cycle 1 (2019)
NEOSSat	
<b><i>Constraining the Carbon Abundance of a Super-Earth Atmosphere</i></b>	2019A
SPIRou/CFHT	
10 Hours	
<b>Co-Investigator .....</b>	
<b><i>Unveiling the Atmosphere of the Highly Irradiated Ultra-Hot Jupiter TOI-2109b</i></b>	2024A
EXPRES/LDT	
1 Night	
<b><i>Atmospheric Characterization of the Inflated Hot Jupiter KELT-4 A b</i></b>	2024A
EXPRES/LDT	
1 Night	
<b><i>Inferno-Dynamics: Unmasking Chemical Inhomogeneities in the Hottest Exoplanet Atmosphere</i></b>	2024A
KPF/Keck	
1.5 Nights	
<b><i>Detecting the Magnetic Field of a Hot Jupiter via Spectropolarimetry</i></b>	2024A
SPIRou/CFHT	
24 Hours ( <i>Followup to 2020A/2021B/2022B Proposals</i> )	
<b><i>Diving into the Ultra-Hot Atmosphere of HAT-P-70 b with GHOST</i></b>	2023B
GHOST/Gemini South	
5.75 Hours ( <i>Shared Risk</i> )	
<b><i>Using GHOST to trace the formation histories of hot Jupiters around M dwarfs</i></b>	2023B
GHOST/Gemini South	
5.42 Hours ( <i>Shared Risk</i> )	
<b><i>Exploring the Diversity of Exoplanet Atmospheres at High Resolution</i></b>	2020 — 2023
GRACES/Gemini North	
224 Hours ( <i>Long and Large Program</i> )	

<b><i>First Detailed Characterization of an Exceptional New Earth-Sized World</i></b>	2021A
IGRINS/Gemini South	
2.5 Hours ( <i>Director's Discretionary Time</i> )	
<b><i>Observing CO &amp; CO<sub>2</sub> in Solar System Planets at High Spectral Resolution</i></b>	2020A
GIANO/TNG	
0.5 Nights	
<b><i>Characterizing the Atmosphere of the Extremely Hot Jupiter Kepler-13Ab</i></b>	2019A
GRACES/Gemini North	
10 Hours	
<b><i>The Chemical Inventory of Exoplanet tau Bootis b</i></b>	2019A
SPIRou/CFHT	
10 Hours ( <i>Ranked #1 of 28 by CanTAC</i> )	
<b><i>Understanding How Tight Binaries Affect TESS Planets</i></b>	2019A
SOAR	
4 Nights	

## Workshop Attendance

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<b>ESO Atmospheres Workshop</b>	Summer 2021
ESO Garching/Virtual	
<b>Early Release Science Pre-Launch Data Hackathon</b>	Summer 2021
JWST/Virtual	
<b>Helping Astronomers: A Workshop on Teaching Climate Change</b>	Fall 2019
CASCA/Virtual	
<b>ComSciConCAN: Science Communication Workshop</b>	Summer 2019
McMaster University, Canada	
<b>Multi-Dimensional Characterization of Distant Worlds</b>	Fall 2018
University of Michigan, Ann Arbor	

## Additional Research Experience

### Graduate Research Experience .....

<b>Graduate Research Course</b>	Summer 2018
University of Toronto	
Advisor: Diana Valencia	
<i>Modelling tidal dissipation in super-Earth interiors.</i>	
<b>Graduate Research Course</b>	2017 — 2018
University of Toronto	
Advisor: Ray Jayawardhana	
<i>High-resolution optical spectroscopy of warm Saturn atmospheres.</i>	

### Undergraduate Research Experience .....

<b>Undergraduate Research Assistant</b>	Summer 2017
Canadian Institute for Theoretical Astrophysics	
Advisor: Cristobal Petrovich	
<i>Simulating the origins and dynamics of ultra-short period planets.</i>	

<b>Undergraduate Research Thesis</b> University of Toronto Advisor: Chris Matzner <i>Observing starforming regions in the Dragonfish Nebula.</i>	2016 — 2017
<b>Undergraduate Research Assistant</b> Dunlap Institute for Astronomy & Astrophysics Advisors: Chelsea Huang & Cristobal Petrovich <i>Simulating the dynamics of Kepler super-Earths with outer giant planets.</i>	Summer 2016
<b>Undergraduate Research Assistant</b> University of Toronto Advisor: John Percy <i>Studying the long secondary periods of pulsating red giant stars.</i>	2015 — 2016
<b>Undergraduate Research Assistant</b> University of Toronto Advisors: Marten van Kerkwijk & Ue-Li Pen <i>Observing and studying giant pulses and scintillation from the Crab pulsar.</i>	Summer 2015

## Teaching Experience

<b>Teaching Assistant</b> AST101: The Sun and its Neighbours (U of T)	Fall 2021
<b>Teaching Assistant</b> AST301: Observational Astronomy (U of T)	Fall 2020
<b>Course Development Support</b> AST301: Observational Astronomy (U of T) <i>Hired to redesign course content for online format during COVID-19</i>	Summer 2020
<b>Summer Teaching Assistant</b> AST101: The Sun and its Neighbours (U of T)	Summer 2020
<b>Senior Teaching Assistant</b> AST201: Stars and Galaxies (U of T)	Winter 2020
<b>Senior Teaching Assistant</b> AST101: The Sun and its Neighbours (U of T)	Fall 2019
<b>Summer Teaching Assistant</b> AST201: Stars and Galaxies (U of T)	Summer 2019
<b>Head Teaching Assistant</b> AST201: Stars and Galaxies (U of T) <i>Head TA for a team of 30+ TAs</i>	Winter 2019
<b>Head Teaching Assistant</b> AST101: The Sun and its Neighbours (U of T) <i>Head TA for a team of 30+ TAs</i>	Fall 2018
<b>Summer Teaching Assistant</b> AST251: Life on Other Worlds (U of T)	Summer 2018
<b>Teaching Assistant</b> AST251: Life on Other Worlds (U of T) <i>Helped redesign course content</i>	Winter 2018



<b>Teaching Assistant</b> ASTC25: Astrophysics of Planetary Systems (U of T Scarborough)	Winter 2018
<b>Senior Teaching Assistant</b> AST201: Stars and Galaxies (U of T)	Winter 2018
<b>Teaching Assistant</b> AST101: The Sun and its Neighbours (U of T)	Fall 2017
<b>Undergraduate Teaching Assistant</b> AST201: Stars and Galaxies (U of T)	Winter 2017
<b>Undergraduate Teaching Assistant</b> AST201: Stars and Galaxies (U of T)	Winter 2016

## Relevant Work Experience

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<b>Science Communications Associate</b> Research2Reality	2018 — Present
<b>Public Outreach Support</b> Dunlap Institute for Astronomy & Astrophysics	2021 — 2022
<b>Astronomy Library Assistant</b> University of Toronto	2017

## Outreach

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### Public Lectures, Panels, Workshops, & Presentations .....

<b>Workshop on Science Writing</b> Canadian Association of Physicists	June 2022
<b>Planet Gazing Party Host</b> Dunlap Institute for Astronomy & Astrophysics	September 2021
<b>Panel Discussion on Creating a CV</b> U of T Summer Undergraduate Research Program	Summer 2021
<b>Public Talk: The Extraordinary Worlds of Exoplanets</b> Richmond Hill Public Library	February 2021
<b>Planet Gazing Party Panelist</b> Dunlap Institute for Astronomy & Astrophysics	September 2020
<b>Public Talk: Astronomy Night</b> David Dunlap Observatory/RASC Toronto Centre	July 2020
<b>Astro at Home Talk: Extraordinary Exoplanets</b> Discover the Universe	April 2020
<b>Panel Discussion on Astronomy</b> Toronto Astronomy & Space Exploration Society	November 2019
<b>Astronomy on Tap: An Astronomer's Guide to Finding Exoplanets</b> Astronomy on Tap Toronto	June 2019
<b>Lecturer for Discover the Universe Teacher's Workshop</b> Discover the Universe	April 2019
<b>Panel Discussion on Graduate School</b> Astronomy Undergraduates Union	January 2019

<b>NSERC Scholarship Application Workshop</b> University of Toronto (Created, organized & led workshop)	November 2018
<b>Science Writing Workshop</b> University of Toronto (Created, organized & led workshop)	September 2018
<b>Public Talk: A New Window on Exoplanet Atmospheres</b> Graduate Speaker Series, University of Toronto	April 2018
<b>Public Talk for the Canadian Space Society January Meeting</b> Canadian Space Society	January 2018

## Mentorship .....

<b>Graduate-Undergraduate Mentor</b> Mentor to undergraduate student.	2020 — 2021
<b>Girls SySTEM Women in STEM Mentor</b> Mentor to high school student.	2019 — 2020
<b>Graduate Peer Mentor</b> Mentor to incoming graduate students.	2018 — 2020

## Other Outreach Work .....

<b>ComSciConGTA Conference Organizing Committee</b> Communicating Science Conference (ComSciCon) Series	2019 — 2020
<b>SpaceTime Event Volunteer</b> Dunlap Institute for Astronomy & Astrophysics	2019 — Present
<b>“Ask an Astronomer” Email Account Manager</b> University of Toronto	2018 — 2020
<b>“Science Around Town” Weekly Columnist</b> <i>The Varsity</i> Newspaper, University of Toronto	2018 — 2019
<b>Staff Science Writer</b> <i>The Varsity</i> Newspaper, University of Toronto	2017 — 2020
<b>Solar Eclipse Event Volunteer</b> Canadian National Exhibition	2017
<b>Telescope Coordinator &amp; Event Volunteer</b> Toronto Chinatown Festival	2017
<b>Astronomy on Tap Volunteer</b> Astronomy on Tap Toronto	2015 — Present
<b>AstroTours Volunteer</b> University of Toronto	2015 — Present

## Service Work

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<b>TAC Member</b> NOIRLab Time Allocation Committee	2023 — Present
<b>Referee</b> AAS Journals	2023 — Present
<b>Referee</b> CFHT Time Allocation Committee	2022 — Present
<b>CASCA Postdoc Committee Member</b> Canadian Astronomical Society (CASCA)	2023 — Present

<b>President</b> Graduate Astronomy Students Association, University of Toronto	2019 — 2020
<b>Director Search Committee Member</b> Dunlap Institute for Astronomy & Astrophysics	2020
<b><i>Elemental</i> Mental Health Magazine Executive Editor</b> Grad Minds, University of Toronto	2019 — 2020
<b>Department Chair Search Committee Member</b> Department of Astronomy & Astrophysics, University of Toronto	2019 — 2020
<b>Science Discussion Group Facilitator</b> Department of Astronomy & Astrophysics, University of Toronto	2018 — 2019
<b>CASCA Student Representative</b> Canadian Astronomical Society	2018 — 2019
<b>Mental Health Committee Member</b> Department of Astronomy & Astrophysics, University of Toronto	2017 — 2019
<b>Astronomy Undergraduates Liaison</b> Graduate Astronomy Students Association	2017 — 2019
<b>Astronomy Undergraduates Union (AU) Co-Founder</b> University of Toronto	2017

## Professional Development

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<b>Graduate Professional Skills Development Certification</b> School of Graduate Studies, University of Toronto	2017 — Present
<b>Advanced Undergraduate Teaching Certification</b> Teaching Assistant Training Program, University of Toronto	2018 — 2020
<b>SafeTALK Suicide Awareness &amp; Intervention Training</b> University of Toronto/Living Works	2019
<b>Teaching Fundamentals Certification</b> Teaching Assistant Training Program, University of Toronto	2017 — 2018

## Select Media Appearances

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1. [\*“Researchers investigate an ‘ultra-hot Jupiter’ with iron rain and calcium wind”\*](#), Quirks & Quarks, CBC Radio, October 2021.
2. [\*“Bizarre, scorching exoplanet WASP-76 b may be even hotter than we thought”\*](#), SPACE.com, October 2021.
3. [\*“Inferno-like WASP-76b exoplanet where iron gets vaporized and falls from the sky like rain is even HOTTER than first thought, study finds”\*](#), The Daily Mail, October 2021.
4. [\*“This exoplanet rains iron. And scientists say temperatures can hit a scorching 4,000 degrees”\*](#), USA Today, October 2021.
5. [\*“Planet with iron rainfall is even more extreme than scientists thought”\*](#), CNN, October 2021.
6. [\*“Quirks & Quarks Listeners’ Questions Episode”\*](#), Quirks & Quarks, CBC Radio, June 2021.
7. [\*“Astronomy PhD student Emily Deibert awarded A&S Doctoral Excellence Scholarship”\*](#), U of T News, November 2020.

8. *“Wander the Night Sky”*, CIBC Private Wealth Newsletter, August 2020.
9. *“A Faraway Solar System Looks Eerily Similar to Our Own”*, The Atlantic, July 2020.
10. *“Catching Up With “Award of Excellence” Winner Emily Deibert”*, Dunlap Institute for Astronomy & Astrophysics, April 2020.
11. *“Astronomy PhD Student Named a 2019 Vanier Scholar for Research on Exoplanets”*, The Varsity, University of Toronto, October 2019.
12. *“Meteor Sighting Lights up Night Sky”*, The Manitoulin Expositor, December 2018.
13. *“Solar Telescopes and Solar Eclipse Viewing”*, CTV News Broadcast Interview, August 2017.
14. *“Solar Eclipse Glasses and Safety”*, CTV News Broadcast Interview, August 2017.
15. *“Starfinders: The Campaign for U of T Astronomy”*, Dunlap Institute for Astronomy & Astrophysics, February 2017.

## Press Releases

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1. *“Spectrum reveals extreme exoplanet is even more exotic”*, Dunlap Institute for Astronomy & Astrophysics, University of Toronto, October 2021.
2. *“Spectrum reveals extreme exoplanet is even more exotic”*, Cornell Chronicle, Cornell University, October 2021.
3. *“Scientists reveal extreme exoplanet is even more exotic than they thought”*, Queen’s University Belfast, October 2021.

## Select Science Writing

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*100+ science news articles written for a range of media outlets. Full portfolio available [online](#).*

1. *“Einstein Was Right, and Now We Have the Proof”*, Research2Reality, July 2021.
2. *“How Much Stuff is There in the Universe?”*, New Scientist, August 2020.
3. *“Was the Milky Way a Quasar?”*, PBS Space Time, April 2020.
4. *“Astronomers Now Have Some Idea of How the First Stars Died”*, Massive Science, June 2019.