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Research Interests

Galactic magnetism; multiphase interstellar medium; radio polarization; dust extinction; star formation

Education

Ph.D., Astronomy & Astrophysics, DADDAA & Dunlap, UofT

Sept 2016 - Jan 2023

Preliminary thesis entitled "Polarimetry and 21 cm HI as a Probe of Galactic Magnetism in a Multiphase Interstellar Medium" supervised by Bryan Gaensler and Susan Clark

H.B.Sc., Astronomy & Physics, UofT

Sept 2011 - June 2016

 $\label{lem:condition} \begin{tabular}{l} \textbf{Undergraduate thesis entitled "Using High-Resolution JCMT Imaging to Complement Herschel Observations in Regions of Massive Star Formation" supervised by Peter Martin \\ \end{tabular}$

Honours and Awards

2021	Ontario Graduate Scholarship (\$15,000), DADDAA, UofT
2020	'You Lead, We Follow' Award, Dunlap, UofT
2020	CASCA iPoster Prize, CASCA Board
2020	CASCA iPoster Prize, CASCA GSC
2019	Reinhardt Fund Award, DADDAA, UofT
2018	'Above and Beyond' Award, Dunlap, UofT
2018 - 2019	University of Toronto Fellowship (\$11,742), UofT
2017 - 2018	University of Toronto Fellowship (\$11,742), UofT
2016 - 2017	University of Toronto Fellowship (\$15,855), UofT
2016 - 2017	DADDAA Fellowship (\$8,891), DADDAA, UofT
2016	CITA Undergraduate Summer Research Award (\$8,400), CITA, UofT
2016	Reinhardt Fund Award, DADDAA, UofT
2016	Conference Travel Grant, Dunlap & DADDAA, UofT
2015	Leiden/ESA Astrophysics Program for Summer Students Fellowship, Leiden Ob-
	servatory, Leiden University
2014	Summer Undergraduate Research Program Award (\$8,000), Dunlap, UofT
2013	Summer Undergraduate Research Program Award (\$10,000), Dunlap, UofT

Refereed Publications

- 1. **J. L. Campbell**, S. E. Clark, B. M. Gaensler, et al., "A Comparison of Magnetic Field Tracers in the WIM and CNM Using Radio Polarization Gradients and HI Fibers," 2021, to appear in ApJ (in prep)
- 2. A. J. M. Thomson, T. L. Landecker, N. M. McClure-Griffiths, J. M. Dickey, **J. L. Campbell**, [14 authors], "The Global Magneto-Ionic Medium Survey: Revealing the Brightest Polarized Region in the Southern Sky at 408 MHz and its Implications for Radio Loop II," 2021, to appear in MNRAS (in prep)
- 3. J. L. Campbell, R. K. Friesen, P. G. Martin, P. Caselli, J. Kauffmann, & J. E. Pineda, "Contraction Signatures Toward Dense Cores in the Perseus Molecular Cloud," 2016, ApJ, 819, 143C (17 pages)

Research Experience

Graduate	
2017 - 2021	Ph.D. Thesis, DADDAA & Dunlap, UofT
	Preliminary thesis entitled "Polarimetry and 21 cm HI as a Probe of Galactic Magnetism
2017	in a Multiphase Interstellar Medium" supervised by Bryan Gaensler and Susan Clark Graduate Research Course, DADDAA & Dunlap, UofT
2017	"A Magneto-ionic Radio Polarization Study of the Orion-Eridanus Superbubble Region,
	Loop III and the Intermediate Velocity Arch" supervised by Bryan Gaensler
2016 - 2017	Graduate Research Course, DADDAA & Dunlap, UofT
	"Interstellar Extinction Towards OB Stars in the Molecular Interstellar Medium of W3" supervised by Peter Martin
Undergradua	ite
2016	Summer Undergraduate Researcher, CITA, UofT
2010	"Bright Infrared Stars in the W3 Giant Molecular Cloud" supervised by Peter Martin
2015	Leiden/ESA Astrophysics Program for Summer Students, Leiden University
	"Astrochemical Conditions of the Low-Mass Protostar IRAS 16293-2422 using ALMA"
2014 - 2015	supervised by Mihkel Kama and Magnus Persson Undergraduate Research Course, DADDAA, UofT
2014 2010	"Using High-Resolution JCMT Imaging to Complement Herschel Observations in Regions
	of Massive Star Formation" supervised by Peter Martin
2014	Summer Undergraduate Research Program, Dunlap, UofT
	"Connecting Local Galaxies to Damped Lyman Alpha Systems via 21-cm" supervised by Brian Cherinka
2013 - 2014	Undergraduate Research Course, CITA, UofT
	"Molecular Line Tracers of Kinematics in Star-Forming Regions" supervised by Rachel
2012	Friesen and Peter Martin
2013	Summer Undergraduate Research Program, Dunlap, UofT "Contraction Signatures Toward Dense Cores in the Perseus Molecular Cloud" supervised
	by Rachel Friesen
Conference	ces
Presentations	S
2020 CASC	CA (iPoster); York University (virtual)
	Perspectives on Galactic Magnetism; University of Newcastle upon Tyne, England
_	pple Magnetic Fields; Flatiron Center for Computational Astrophysics, NY
	Way in the Age of GAIA; Institut d'Astrophysique Spatiale, France WiP (poster); Dalhousie University, NS
	(poster), Bumousic Chiversity, 115
	MS Science Workshop; Dominion Radio Astrophysical Observatory, BC
	on in Astronomy Conference; Lorentz Center, Leiden University
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Teaching	and Mentoring
Student Supe	ervision
2020 – 2021	Parampreet Singh co-supervised with Jennifer West, undergraduate thesis (AST425Y)
	torship
2018 – 2019	James Lane, incoming PhD student, UofT
2017 - 2018	Colleen Gilhuly, incoming PhD student, UofT
	Victor Chan, incoming PhD student, UofT

Teaching Assistantships	
Winter 2021	Galaxies and Cosmology (AST222)
Fall 2020	Practical Astronomy (AST325)
Winter 2020	Galaxies and Cosmology (AST222)
Fall 2019	Stars and Planets (AST221)
Summer 2019	Life on Other Worlds (AST251)
Winter 2019	Life on Other Worlds (AST251)
Fall 2018	Great Moments in Astronomy (AST210)
Winter 2018	Life on Other Worlds (AST251)
Fall 2017	Great Moments in Astronomy (AST210)
Winter 2017	Stars and Galaxies (AST201)
Fall 2016	Stars and Galaxies (AST101)
Winter 2016	The Sun and its Neighbours (AST201)
	Great Astronomical Issues (PMU199)
Winter 2015	Stars and Galaxies (AST201)

Academic Service

2020	Graduate Panel Discussion (virtual), ASU, UofT
2020	SURP Graduate Student Panel Discussion (virtual), DADDAA, UofT
2020	Graduate Student Panel Discussion, ASU, UofT
2019 - 2020	TMT Statement Committee, GASA, UofT (elected)
2019 - 2020	People Representing Intersectional Spectral Minorities, GASA, UofT (elected)
2018 - 2020	Dunlap Management Committee (student rep), DADDAA, UofT (elected)
2017 - 2018	Values Statement Committee, DADDAA, UofT
2017 - 2018	Indigenous Astronomy Workshop Committee, DADDAA, UofT
2016 - 2018	CUPE Local 3902 Unit 1 Representative, GASA, UofT (elected)
2015 - 2018	Dunlap Diversity Committee (DDC), Dunlap, UofT
2017	Dunlap Summer School Admissions Committee, Dunlap, UofT
2017 - 2018	Mediation Committee, GASA, UofT (elected)
2017 - 2018	Graduate Course Committee, GASA, UofT (elected)
2017 - 2018	Mental Health Committee, GASA, UofT (elected)
2016 - 2017	Dunlap Associate, Dunlap, UofT

Professional Development

2020	Dunlap Annual Retreat, Dunlap, UofT
2020	Developing Effective Mentoring Practices in the Academy, Dunlap, UofT
2019	Identify, Assist, Refer Workshop, DADDAA, UofT
2015 - 2020	Teaching Assistants' Training Program (TATP), UofT
	Courses include:
	Active Learning Strategies for Online Teaching
	Women in STEM: Teaching and Learning Roundtable
	Teaching Dossiers and Statements of Teaching Philosophy
	Creating a Culture of Accessibility
	Active Learning in Discussion-based Classrooms
	PowerPoint and Beyond – Using Visual Aids in the Classroom
2017	ALMA Community Day Event, NRAO & DADDAA, UofT
2017	Dunlap Annual Retreat, Dunlap, UofT
2016	Dunlap Annual Retreat, Dunlap, UofT
2016	CUPE Unit 1 Local 3902 Stewards' Training, CUPE, UofT

Media Coverage

Outreach

2020	GSC's Grad Highlights, CASCA (link to article)
2013 - 2017	AstroTours Volunteer, UofT
2015 - 2016	Director of Outreach, Astronomy and Space Exploration Society, UofT
2015	Fall Campus Day, UofT
2013 - 2014	Director of Outreach, Astronomy and Space Exploration Society, UofT
2015	Science Rendezvous Solar Telescope Operator, UofT
2014	Science Rendezvous Solar Telescope Operator, UofT
2013 - 2014	Current in Space News Producer, The Star Spot podcast
2013	Sidewalk Astronomy Solar Telescope Operator, UofT