Department of Astronomy & Astrophysics University of Toronto 50 St. George Street, M5S 3H4 Toronto, Ontario, CA AB 125 website: astro.utoronto.ca/ campbell GitHub: github.com/astrosica LinkedIn: linkedin.com/in/astrosica email: campbell@astro.utoronto.ca office: +1 (416) 978-3148

Research Interests

galactic magnetism; radio polarization; interstellar medium; dust extinction; star formation

Education

Ph.D., Astronomy & Astrophysics

2016 - 2021

Department of Astronomy & Astrophysics, University of Toronto, Toronto, ON

Preliminary thesis entitled "Polarimetry and 21 cm HI as a Probe of Galactic Magnetism in a Multiphase, Turbulent ISM" supervised by Bryan Gaensler (UofT) and Susan Clark (IAS)

H.B.Sc., Astronomy & Physics

2011 - 2016

University of Toronto, Toronto, ON

Undergraduate thesis entitled "Using High-Resolution JCMT Imaging to Complement Herschel Observations in Regions of Massive Star Formation" supervised by Peter Martin

Honours and Awards

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$Summer\ 2019$	Reinhardt Fund Award, Department of Astronomy & Astrophysics, 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	DAA Fellowship (\$8,891), Department of Astronomy & Astrophysics, UofT
$Summer\ 2016$	CITA Undergraduate Summer Research Award (\$8,400), Canadian Institute for
	Theoretical Astrophysics, UofT
$Winter\ 2016$	Reinhardt Fund Award, Department of Astronomy & Astrophysics, UofT
$Winter\ 2016$	Conference Travel Grant, Dunlap Institute for Astronomy & Astrophysics and De-
	partment of Astronomy & Astrophysics, UofT
$Summer\ 2015$	Leiden/ESA Astrophysics Program for Summer Students Fellowship, Leiden
	Observatory, Leiden University
$Summer\ 2014$	Summer Undergraduate Research Program Award (\$8,000), Dunlap Institute for
	Astronomy & Astrophysics, UofT
$Summer\ 2013$	Summer Undergraduate Research Program Award (\$10,000), Dunlap Institute
	for Astronomy & Astrophysics, UofT

Refereed Publications

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)

Student Mentorship

2018 - 2019	James Lane (University of Victoria), incoming PhD student
2017 - 2018	Colleen Gilhuly (Queen's University), incoming PhD student
	Victor Chan (University of Toronto), incoming PhD student

Research Experience

Graduate	
2017 – present	Ph.D. Thesis , Dunlap Institute for Astronomy & Astrophysics, UofT and IAS Preliminary thesis entitled "Polarimetry and 21 cm HI as a Probe of Galactic Magnetism in a Multiphase, Turbulent ISM" supervised by Bryan Gaensler (UofT) and Susan Clark (IAS)
Summer 2017	Graduate Research Course, Dunlap Institute for Astronomy & Astrophysics, UofT "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, Dunlap Institute for Astronomy & Astrophysics, UofT "Interstellar Extinction Towards OB Stars in the Molecular Interstellar Medium of W3" supervised by Peter Martin
Undergraduat	ne
Summer 2016	Summer Undergraduate Researcher, CITA, UofT "Bright Infrared Stars in the W3 Giant Molecular Cloud" supervised by Peter Martin
Summer 2015	Leiden/ESA Astrophysics Program for Summer Students, Leiden Observatory, Leiden University
	"Astrochemical Conditions of the Low-Mass Protostar IRAS 16293-2422 using ALMA" supervised by Mihkel Kama and Magnus Persson
2014 - 2015	Undergraduate Research Course, Department of Astronomy & Astrophysics, UofT "Using High-Resolution JCMT Imaging to Complement Herschel Observations in Regions of Massive Star Formation" supervised by Peter Martin
Summer 2014	Summer Undergraduate Research Program, Dunlap Institute for Astronomy & Astrophysics, 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 Friesen and Peter Martin
Summer 2013	Summer Undergraduate Research Program, Dunlap Institute for Astronomy & Astrophysics, UofT
	"Contraction Signatures Toward Dense Cores in the Perseus Molecular Cloud" supervised by Rachel Friesen

Conferences

2019	New Perspectives on Galactic Magnetism; University of Newcastle upon Tyne, England
2019	Big Apple Magnetic Fields; Flatiron Institute, New York
2018	The Milky Way in the Age of Gaia; Institut d'Astrophysique Spatiale, France
2017	GMIMS Science Workshop; Dominion Radio Astrophysical Observatory, Penticton
2017	Python in Astronomy Conference; Lorentz Center, Leiden University
2016	Canadian Conference for Undergraduate Women in Physics; Dalhousie University, Nova
	Scotia

Conference Presentations

Talks	
2019	New Perspectives on Galactic Magnetism; University of Newcastle upon Tyne, England
2019	Big Apple Magnetic Fields; Flatiron Center for Computational Astrophysics, New York
2018	Milky Way in the Age of GAIA; Institut d'Astrophysique Spatiale, France
Poster	'S
2016	Canadian Conference for Undergraduate Women in Physics; Dalhousie University, Nova
	Scotia

Teaching Assistantships

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)

Professional Service

2020	Graduate Student Panel, Astronomy Student Union, UofT
2019-current	TMT Statement Committee, GASA, UofT
2019-current	People Representing Intersectional Spectral Minorities, GASA, UofT
2018-current	Dunlap Management Committee Student Representative, DADDAA, UofT
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
2015 - 2018	Dunlap Diversity Committee (DDC), Dunlap, UofT
$Summer\ 2017$	Dunlap Summer School Admissions Committee, Dunlap, UofT
2017 - 2018	Mediation Committee, GASA, UofT
2017 - 2018	Graduate Course Committee, GASA, UofT
2017 - 2018	Mental Health Committee, GASA, UofT
2016 - 2017	Dunlap Associate, Dunlap, UofT

${\bf Professional\ Development}$

2019	Identify, Assist, Refer Workshop, DADDAA, UofT
2015 - 2019	Teaching Assistants' Training Program (TATP), UofT
	Courses include:
	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 and 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

2017 Road Trip! U of T Students and Faculty Chase Total Solar Eclipse, UofT News, University of Toronto (link to article)

Public Outreach

2013 - 2017	AstroTours Volunteer, UofT
2015 - 2016	Director of Outreach, Astronomy and Space Exploration Society, UofT
Fall 2015	Fall Campus Day, UofT
2013 - 2014	Director of Outreach, Astronomy and Space Exploration Society, UofT
$Summer\ 2015$	Science Rendezvous Solar Telescope Operator, UofT
$Summer\ 2014$	Science Rendezvous Solar Telescope Operator, UofT
2013 - 2014	Current in Space News Producer, The Star Spot podcast
$Summer\ 2013$	Sidewalk Astronomy Solar Telescope Operator, UofT