Jessica Campbell Curriculum Vitaé

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Research Interests

galactic magnetism; polarization; radio astronomy; interstellar medium; dust extinction; early 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" 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

University of Toronto Fellowship (\$11,742), UofT
University of Toronto Fellowship (\$15,855), UofT
DAA Fellowship (\$8,891), Department of Astronomy & Astrophysics, UofT
CITA Undergraduate Summer Research Award (\$8,400), Canadian Institute for
Theoretical Astrophysics, UofT
Reinhardt Fund Award, Department of Astronomy & Astrophysics, UofT
Conference Travel Grant, Dunlap Institute for Astronomy & Astrophysics and Department of Astronomy & Astrophysics, UofT
Leiden/ESA Astrophysics Program for Summer Students Fellowship, Leiden
Observatory, Leiden University
Summer Undergraduate Research Program Award (\$8,000), Dunlap Institute for
Astronomy & Astrophysics, UofT
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)

Conference Posters

Campbell JL, Friesen RF, Martin PG, Caselli P, Kauffmann J, Pineda JE. Infall Signatures of Dense Cores in the Perseus Molecular Cloud. Poster presented at the 3rd annual Canadian Conference for Undergraduate Women in Physics; 2016 Jan 8 – 10; Dalhousie, NS

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" 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	e	
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	
Summer 2014	of Massive Star Formation" supervised by Peter Martin Summer Undergraduate Research Program, Dunlap Institute for Astronomy & As-	
Summer 2014	trophysics, 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	
<i>a</i>	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	
Teaching Assistantships		

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)

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

Conferences

- 2018 The Milky Way in the Age of Gaia, Orsay, France
- 2017 Python in Astronomy Conference, Lorentz Center, Leiden University
- 2016 Conference for Undergraduate Women in Physics, Dalhousie University, Nova Scotia

Professional Service

Dunlap Management Committee Student Representative, Dunlap Institute for
Astronomy & Astrophysics, UofT
Values Statement Committee, Department of Astronomy & Astrophysics, UofT
Indigenous Astronomy Workshop Committee, Department of Astronomy & As-
trophysics, UofT
CUPE Local 3902 Unit 1 Representative, Graduate Astronomy Students Associa-
tion, UofT
Dunlap Diversity Committee, Dunlap Institute for Astronomy & Astrophysics, UofT
Dunlap Summer School Admissions Committee, Dunlap Institute for Astronomy
& Astrophysics, UofT
Mediation Committee, Graduate Astronomy Students Association, UofT
Graduate Course Committee, Graduate Astronomy Students Association, UofT
Mental Health Committee, Graduate Astronomy Students Association, UofT
Dunlap Associate, Dunlap Institute for Astronomy & Astrophysics, UofT

Professional Development

2017	GMIMS Science Workshop, Dominion Radio Astrophysical Observatory, Penticton
	ALMA Community Day Event, National Radio Astronomy Observatory and Depart-
	ment of Astronomy & Astrophysics, UofT
2017	Dunlap Annual Retreat, Dunlap Institute for Astronomy & Astrophysics, UofT
2016	Dunlap Annual Retreat, Dunlap Institute for Astronomy & Astrophysics, UofT
2016	CUPE Unit 1 Local 3902 Stewards' Training, Canadian Union of Public Employees,
	$\mathrm{Uof}\mathrm{T}$
	Module 1: Handling Grievances
	Module 2: What's our Duty?
2015 - 2016	Teaching Assistant Training Program: Non-Certificate Courses, UofT
	Active Learning in Discussion-based Classrooms
	PowerPoint and Beyond – Using Visual Aids in the Classroom

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, Department of Astronomy & Astrophysics, 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, Dunlap Institute for Astronomy
	& Astrophysics, UofT