

Area	Professor	MSc/PhD	Topic(s) (optional)
Faculty accepting new students for 26/27			
Astro/Gravity	Sharon Morsink	1 MSc or PhD	
Condensed Matter	Igor Boettcher	1 MSc	Theory of Quantum Condensed Matter or Quantum Sensor Networks
	Lindsay LeBlanc	1 PhD + 1 MSc	Experimental AMO physics for quantum science and technology
	Joseph Maciejko	1 MSc	Theory of Quantum Condensed Matter
		1 PhD	Theory of Quantum Condensed Matter
	Frank Marsiglio		Theoretical Condensed Matter
	Robert Wolkow	1 either	electron and nuclear spin control of atom defined structures
	Michael Fleischauer	2 MSc	in-situ / operando battery spectroscopy
Biophysics	Gil Porat	2 PhD/MSc	Experimental laser spectroscopy and atomic physics for quantum sensing (https://www.ece.ualberta.ca/~gporat/)
	Michael Woodside	2-3 PhD/MSc	Single-molecule biophysics; folding of proteins and viral RNAs; protein aggregation and prion-like propagation; fold-switching; drug discovery for neurodegeneration
	Daniel Charlebois	1 MSc	Biophysics/magnetobiology
Geophysics	Claire Currie		geodynamics, continental tectonics
	Mathieu Dumberry	1 MSc or PhD	Flows in subsurface oceans

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	Mauricio Sacchi	MSc or PHD	Inverse Problems, PINNs applied to Inverse Problems
	Bruce Sutherland	MSc or PhD	experiments/simulations/theory to examine the connection between turbulence, mixing, and waves in the ocean
	Martyn Unsworth	MSc or PhD	Geophysical exploration in Western Canada to understand geological history and mineral resource distribution Tectonic studies in Nepal to investigate Himalayan earthquake cycle
	Mirko van der Baan	MSc or PhD	applied geophysics: monitoring of underground carbon storage, human-induced earthquakes, and geomechanics
Particle Physics	Nassim Bozorgnia	1 MSc 2 PhD	Dark matter phenomenology Dark matter phenomenology
	Andrzej Czarnecki	1 MSc/PhD	Subatomic theory
	Doug Gingrich	1 MSc	
	Alexander Penin	1 MSc/PhD	
Space & Plasma	Abigail Azari	1 MSc/PhD	Physics based model merging (e.g. spherical harmonics, magnetohydrodynamics) with machine learning for outer planet mission planning (see https://abbyazari.github.io/join/)
		1 MSc/PhD	Automated plasma and magnetic field observation event identification with reinforcement learning (see https://abbyazari.github.io/join/)
		1 MSc/PhD	Estimation of ion loss and aurora morphology at Mars (see https://abbyazari.github.io/join/)
		1 MSc/PhD	Multi-dataset solar wind estimation throughout the inner solar system with Gaussian processes (see https://abbyazari.github.io/join/)

Area	Professor	MSc/PhD	Topic(s) (optional)
	Yangyang Shen	1 MSc/PhD	NASA THEMIS/MMS spacecraft and Canadian ground-based data analyses + numerical modeling for study of auroras
		1 MSc/PhD	NASA TRACERS spacecraft and Canadian ground-based data analyses for study of space weather (e.g., GPS scintillations)
		1 MSc/PhD	NASA ELFEN CubeSats data analysis for study of space radiation and energetic electron precipitation

Faculty not accepting new students this cycle

Astro/Gravity

Rodrigo Fernandez
Craig Heinke
Natalia Ivanova
Don Page
Saeed Rastgoo
Erik Rosolowsky
Gregory Sivakoff

Condensed Matter

Massimo Boninsegni

Geophysics

Vadim Kravchinsky

Particle Physics

Juan Pablo Yanez
Aksel Hallin

Space & Plasma

Richard Sydora