GRADUATE SUPERVISORS

Name / Email	Research Area	ENGINEERING & COMPUTATIONAL	& DETECTION	PARTICLE ASTROPHYSICS (ENGINEERING & COMPUTATIONAL & DETIONAL)	PARTICLE ASTROPHYSICS	THEORETICAL & COMPUTATIONAL PHYSICS	INSTRUMENTATION & DEVICE DEVELOPMENT
JOSEPH BRAMANTE joseph.bramante@queensu.ca	• Particle Theory, Dark Matter, and Cosmology	■			■	■	
ALEXANDER BRAUN braun@queensu.ca	• Physics of the Earth and Planets			■			
TUCKER CARRINGTON tucker.carrington@queensu.ca	• Molecular Quantum Physics		■			■	
MARK CHEN mchen@queensu.ca	• Neutrino Physics and Double Beta Decay				■		■
KEN CLARK kenneth.clark@queensu.ca	• Dark Matter Searches				■		■
JODI COOLEY jodi.cooley@snolab.ca	• Dark Matter Searches				■		■
MARC DIGNAM dignam@queensu.ca	• Nonlinear and Quantum Optics		■	■		■	
PHILIPPE DI STEFANO distefan@queensu.ca	• Particle Detectors and Rare-event Searches				■		■
LAURA FISSEL laura. ssel@queensu.ca	• Star and Planet Formation, Stratospheric	■					■
	Ultrasonic, Thermographic		■	■			■
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KAYLL LAKE lakek@queensu.ca	• Black Holes and the Evolution of the Universe	■				■	
RYAN MARTIN ryan.martin@queensu.ca	• Neutrinos, Dark Matter, Machine Learning				■		■
JORDAN MORELLI morelli@queensu.ca	• Controlled Fusion, Plasma Physics, Renewable Energy			■			
TONY NOBLE potato@snolab.ca	• Dark Matter Searches				■		■
JEAN-MICHEL NUNZI nunzijm@queensu.ca	• Light-Matter Interactions, Photonics Devices		■	■			■
NAHEE PARK nahee.park@queensu.ca	• High-energy Neutrino, Gamma-Ray, and Cosmic-Ray Astrophysics	■			■		■
NIR ROTENBERG nir.rotenberg@queensu.ca	• Quantum Nanophotonics, Quantum Devices, Quantum Information Processing		■	■			■
SARAH SADAVOY sarah.sadavoy@queensu.ca	• Molecular Clouds, Star and Planet Formation	■					
STEPHEN SEKULA stephen.sekula@queensu.ca	• Astrophysics, Dark Matter, Supernovas				■		■
BHAVIN SHASTRI bhavin.shastri@queensu.ca	• Nanophotonics, Neuromorphic Computing, Quantum Machine Learning		■	■			■
KRISTINE SPEKKENS kristine.spekkens@queensu.ca	• Extragalactic Astrophysics	■					
JAMES STOTZ jstotz@queensu.ca	• Semiconductor Spintronics and Quantum Dots		■	■			■
GREG VAN ANDERS gva@queensu.ca	• Soft Matter, Materials, Networks, Complex Systems		■	■		■	
AARON VINCENT aaron.vincent@queensu.ca	• Astroparticle Theory, Dark Matter, Neutrinos, Cosmology	■			■	■	
GREGG WADE wade.gregg@queensu.ca	• Structure and Impact of Magnetic Fields in Stars	■					
LARRY WIDROW widrow@queensu.ca	• Galactic Dynamics, Dark Matter, and Cosmology	■				■	
ALEX WRIGHT awright@queensu.ca	• Neutrino Physics, Dark Matter				■		■

RESEARCH AREAS

The Department of Physics, Engineering Physics & Astronomy at Queen's University is one of the leading Canadian research institutes in Physics, Engineering Physics and Astronomy. Our faculty includes high-profile, world-class physicists who work on cutting edge areas of theoretical, computational, applied and experimental physics. Our students have the opportunity to engage in international collaborations as well as interdisciplinary research with other departments at Queen's, and work in state-of-the-art laboratories. If you have questions about joining our graduate programs, please email us at physgrad@queensu.ca.

ASTRONOMY, ASTROPHYSICS & RELATIVITY

CONDENSED MATTER PHYSICS & OPTICS

ENGINEERING & APPLIED PHYSICS

Research topics include cosmology, dark matter, relativity, early Universe cosmology, galaxy structure and formation, the interstellar medium, stellar populations, stellar atmospheres, and the formation of stars and planetary systems. Research activities involve theory, numerical analysis, simulations, and observations at leading astronomical facilities around the world and across the electromagnetic spectrum.

PARTICLE ASTROPHYSICS

THEORETICAL & COMPUTATIONAL PHYSICS

INSTRUMENTATION & DEVICE DEVELOPMENT