

## Faculty members who are planning to accept PhD students in September 2024

Last Name	First Name	Email	Research area(s)
Bergeron	Nantel	bergeron@yorku.ca	Algebraic combinatorics
Bergevin	Christopher	cberge@yorku.ca	Biomechanics, Nonlinear dynamics, Acoustics
Cao	Jingyi	jingyic@yorku.ca	stochastic optimal control in investment and insurance
Chen	Michael	chensy@yorku.ca	financial applications of deep learning method
Couchman	Miles	mmpc@yorku.ca	Fluid mechanics (including possibility of using high-performance computing facilities, performing laboratory experiments), data-driven modeling of physical phenomena, machine learning
Diaz-Rodriguez	Jairo	Jdiazrod@yorku.ca	data science, machine learning, high-dimensional statistics, regularization
Elder	James	jelder@yorku.ca	Computer vision, computational neuroscience
Farah	Ilijas	ifarah@yorku.ca	Operator algebras (C*-algebras, von Neumann algebras), Set theory, Model theory Applications of any of the above to any of the above
Fu	Yuejiao	yuejiao@yorku.ca	Finite Mixture Models, Empirical Likelihood Method, Asymptotic Theory, Biostatistics, Case-Control Studies, Statistical Genetics, DNA Methylation Data Analysis, Density Ratio Models, Data Depth
Furman	Ed	efurman@yorku.ca	Actuarial Science, Quantitative Risk Management, Stochastic Dependence Modelling
Gao	Xin	xingao@yorku.ca	Statistics and machine learning
Gibson	Peter	pcgibson@yorku.ca	Analysis and applications, Inverse problems, One-dimensional scattering in non-smooth media, Acoustic imaging, Computational methods, Orthogonal polynomials, Combinatorial and differential geometry, Complex analysis
Ingram	Patrick	pingram@yorku.ca	Number theory, arithmetic geometry, arithmetic dynamics
Jankowski	Hanna	hkj@yorku.ca	Statistics and Data Science, Statistics for disease modelling
Li	Dongchen	dcli@yorku.ca	Actuarial Science, Mathematical Finance, Stochastic Optimal Control.
Liang	Dong	dliang@yorku.ca	Numerical method and analysis for PDEs, Computational fluid dynamics and Porous media flow, Computational electromagnetics
Madras	Neal	madras@yorku.ca	Probability (mainly discrete), including statistical mechanics, Mathematical modeling, particularly (a) infectious disease and (b) polymer physics  Note: In disease modeling, I will only serve as co-supervisor, not sole supervisor
Milevsky	Moshe	milevsky@yorku.ca	Mathematical Finance, Actuarial Science & History of Both
Moghadas	Seyed	moghadas@yorku.ca	Computational Epidemiology, Agent-Based Simulations, Disease Modelling, Health Economics
Monette	Georges	georges@yorku.ca	Multilevel and longitudinal models, Statistical visualization, Applications to recovery from traumatic brain injuries  Note: I have no funding to offer students but I am

			available to co-supervise students whose research involves statistical methods.
Motakis	Pavlos	pmotakis@yorku.ca	Functional Analysis, Banach space theory
Ramsay	Kelly	kramsay2@yorku.ca	Differential privacy, Functional data, Robust statistics, Nonparametric statistics
Salisbury	Tom	salt@yorku.ca	Probability
Skoufranis	Paul	pskoufra@yorku.ca	Operator Algebras, Operator Theory, Free Probability.
Szeptycki	Paul	szeptyck@yorku.ca	Set theoretic topology
Woldegerima	Woldegebriel Assefa	wassefaw@yorku.ca	Mathematical modelling of biological, epidemiological, ecological and chemical processes: Singular perturbation theory applied to multiscale epidemiological models, Neural ordinary differential equations, Neural Networks as solutions of differential equations and application to biomathematics, Machine learning in modelling and predicting infectious diseases, Modelling and analyzing the impact of climate change on infectious diseases, Mathematical immunology: including modelling of cellular level dynamics of parasites, viruses and interaction with the immune system, One-health modelling approach to zoonotic diseases, Viscosity solutions of Hamilton-Jacobi type PDE equations
Wong	Augustine	august@yorku.ca	Statistics
Wu	Jianhong	wujh@yorku.ca	dynamical systems, mathematical biology, neural networks, data analytics
Wu	Yuehua	wuyh@yorku.ca	M-estimation, Model selection, Multiple change-point analysis, Multivariate analysis, Spatio-temporal modeling, High-dimensional statistics, Financial econometrics, Data mining, Missing data, Computational algorithms
Zabrocki	Mike	zabrocki@yorku.ca	Algebraic combinatorics and combinatorial representation theory
Zhao	Kaiqiong	kaiqiong@yorku.ca	Biostatistics; Statistical genetics/genomics; Data integration; Statistical machine learning; Causal inference

## Faculty members who are planning to accept MSc students in September 2024

[MSc program is offered only in Applied and Industrial Mathematics]

Last Name	First Name	Email	Research area(s)
Bergeron	Nantel	bergeron@yorku.ca	Algebraic combinatorics
Bergevin	Christopher	cberge@yorku.ca	Biomechanics, Nonlinear dynamics, Acoustics
Cao	Jingyi	jingyi@yorku.ca	stochastic optimal control in investment and insurance
Chen	Michael	chensy@yorku.ca	financial applications of deep learning method
Couchman	Miles	mmpc@yorku.ca	Fluid mechanics (including possibility of using high-performance computing facilities, performing laboratory experiments), data-driven modeling of physical phenomena, machine learning
Diaz-Rodriguez	Jairo	Jdiazrod@yorku.ca	data science, machine learning, high-dimensional statistics, regularization
Elder	James	jelder@yorku.ca	Computer vision, computational neuroscience

Farah	Ilijas	lfarah@yorku.ca	Operator algebras ( $C^*$ -algebras, von Neumann algebras), Set theory, Model theory, Applications of any of the above to any of the above
Furman	Ed	efurman@yorku.ca	Actuarial Science, Quantitative Risk Management, Stochastic Dependence Modelling
Gao	Xin	xingao@yorku.ca	Statistics and machine learning
Jankowski	Hanna	hkj@yorku.ca	Statistics and Data Science, Statistics for disease modelling
Li	Dongchen	dcli@yorku.ca	Actuarial Science, Mathematical Finance, Stochastic Optimal Control.
Liang	Dong	dliang@yorku.ca	Numerical method and analysis for PDEs, Computational fluid dynamics and Porous media flow, Computational electromagnetics
Milevsky	Moshe	milevsky@yorku.ca	Mathematical Finance, Actuarial Science & History of Both
Moghadas	Seyed	moghadas@yorku.ca	Computational Epidemiology, Agent-Based Simulations, Disease Modelling, Health Economics
Monette	Georges	georges@yorku.ca	Multilevel and longitudinal models Statistical visualization, Applications to recovery from traumatic brain injuries  Note: I have no funding to offer students but I am available to co-supervise students whose research involves statistical methods.
Salisbury	Tom	salt@yorku.ca	Math finance (though most finance students find the MA a better fit)
Woldegerima	Woldegebriel Assefa	wassefaw@yorku.ca	Mathematical modelling of biological, epidemiological, ecological and chemical processes: Singular perturbation theory applied to multiscale epidemiological models, Neural ordinary differential equations, Neural Networks as solutions of differential equations and application to biomathematics, Machine learning in modelling and predicting infectious diseases, Modelling and analyzing the impact of climate change on infectious diseases, Mathematical immunology: including modelling of cellular level dynamics of parasites, viruses and interaction with the immune system, One-health modelling approach to zoonotic diseases, Viscosity solutions of Hamilton-Jacobi type PDE equations
Wu	Jianhong	wujh@yorku.ca	dynamical systems, mathematical biology, neural networks, data analytics
Zhao	Kaiqiong	kaiqiong@yorku.ca	Biostatistics; Statistical genetics/genomics; Data integration; Statistical machine learning; Causal inference
Janse van Rensburg	EJ	rensburg@yorku.ca	Monte Carlo simulations of self-avoiding walks, Statistical mechanics of lattice models in physics and chemistry, Mathematical physics and combinatorics of lattice paths and related models.

## Faculty members who are planning to accept MA students in September 2024

Last Name	First Name	Email	Research area(s)
Bergeron	Nantel	bergeron@yorku.ca	Algebraic combinatorics

Bergevin	Christopher	cberge@yorku.ca	Biomechanics, Nonlinear dynamics, Acoustics
Cao	Jingyi	jingyic@yorku.ca	stochastic optimal control in investment and insurance
Chan	Ada	ssachan@yorku.ca	Algebraic graph theory, association schemes, quantum walks
Chen	Michael	chensy@yorku.ca	financial applications of deep learning method
Couchman	Miles	mmpc@yorku.ca	Fluid mechanics (including possibility of using high-performance computing facilities, performing laboratory experiments), data-driven modeling of physical phenomena, machine learning
Diaz-Rodriguez	Jairo	Jdiazrod@yorku.ca	data science, machine learning, high-dimensional statistics, regularization
Elder	James	jelder@yorku.ca	Computer vision, computational neuroscience
Farah	Ilijas	lfarah@yorku.ca	Operator algebras (C*-algebras, von Neumann algebras), Set theory, Model theory, Applications of any of the above to any of the above
Fu	Yuejiao	yuejiao@yorku.ca	Finite Mixture Models, Empirical Likelihood Method, Asymptotic Theory, Biostatistics, Case-Control Studies, Statistical Genetics, DNA Methylation Data Analysis, Density Ratio Models, Data Depth
Furman	Ed	efurman@yorku.ca	Actuarial Science, Quantitative Risk Management, Stochastic Dependence Modelling
Gao	Xin	xingao@yorku.ca	Statistics and machine learning
Ingram	Patrick	pingram@yorku.ca	number theory, arithmetic geometry, arithmetic dynamics
Jankowski	Hanna	hkj@yorku.ca	Statistics and Data Science, Statistics for disease modelling
Janse van Rensburg	EJ	rensburg@yorku.ca	Monte Carlo simulations of self-avoiding walks Statistical mechanics of lattice models in physics and chemistry, Mathematical physics and combinatorics of lattice paths and related models.
Kuznetsov	Alexey	akuznets@yorku.ca	stochastic processes, special functions, mathematical finance, numerical analysis
Li	Dongchen	dcli@yorku.ca	Actuarial Science, Mathematical Finance, Stochastic Optimal Control.
Liang	Dong	dliang@yorku.ca	Numerical method and analysis for PDEs, Computational fluid dynamics and Porous media flow, Computational electromagnetics
Liu	Wei	liuwei@yorku.ca	Analysis of longitudinal data, survival data, joint models; Analysis of missing data, dropouts, measurement errors, change points; Constrained inference, order-restricted hypothesis testing; Multiple imputation; Biostatistics
Madras	Neal	madras@yorku.ca	Probability (mainly discrete), including statistical mechanics, Mathematical modeling, particularly (a) infectious disease and (b) polymer physics  Note: In disease modeling, I will only serve as co-supervisor, not sole supervisor
McGregor	Kevin	kevinmcg@yorku.ca	Biostatistics, statistical genetics, high-dimensional data, Bayesian statistics
Milevsky	Moshe	milevsky@yorku.ca	Mathematical Finance, Actuarial Science & History of Both
Monette	Georges	georges@yorku.ca	Multilevel and longitudinal models Statistical visualization, Applications to recovery from traumatic brain injuries  Note: I have no funding to offer students but I am

			available to co-supervise students whose research involves statistical methods.
Motakis	Pavlos	pmotakis@yorku.ca	Functional Analysis, Banach space theory
Omar	Mohamed	omarmo@yorku.ca	Combinatorics
Salisbury	Tom	salt@yorku.ca	Probability, Math finance
Skoufranis	Paul	pskoufra@yorku.ca	Operator Algebras, Operator Theory, Free Probability.
Szeptycki	Paul	szeptyck@yorku.ca	Set theoretic topology
Woldegerima	Woldegebriel Assefa	wassefaw@yorku.ca	Mathematical modelling of biological, epidemiological, ecological and chemical processes: Singular perturbation theory applied to multiscale epidemiological models, Neural ordinary differential equations, Neural Networks as solutions of differential equations and application to biomathematics, Machine learning in modelling and predicting infectious diseases, Modelling and analyzing the impact of climate change on infectious diseases, Mathematical immunology: including modelling of cellular level dynamics of parasites, viruses and interaction with the immune system, One-health modelling approach to zoonotic diseases, Viscosity solutions of Hamilton-Jacobi type PDE equations
Wong	Augustine	august@yorku.ca	Statistics
Wong	Man Wah	mwwong@yorku.ca	Functional Analysis, Partial Differential Equations, Pseudo-Differential Operators
Wu	Jianhong	wujh@yorku.ca	dynamical systems, mathematical biology, neural networks, data analytics
Wu	Yuehua	wuyh@yorku.ca	M-estimation, Model selection, Multiple change-point analysis, Multivariate analysis, Spatio-temporal modeling, High-dimensional statistics, Financial econometrics, Data mining, Missing data, Computational algorithms
Zabrocki	Mike	zabrocki@yorku.ca	Algebraic combinatorics and combinatorial representation theory
Zhao	Kaiqiong	kaiqiong@yorku.ca	Biostatistics; Statistical genetics/genomics; Data integration; Statistical machine learning; Causal inference