

## Student Application Form for 2023/24

Students should apply to one of two *Program Streams*: Analytics or Health Sciences. The *Analytics Stream* emphasizes research in computational and analytic techniques for disease data; students should have a background or be enrolled in a graduate program in computational, statistical, and/or mathematical sciences. The *Health Sciences Stream* emphasizes epidemiology, biostatistics, bioinformatics, social dimensions of health, and health informatics; students should have a background in the health or social sciences (e.g., psychology, sociology) fields.

Application Requirements: Submit the completed application form, electronic or unofficial copy of transcript(s) containing information about the last 60 credit hours of coursework, and a current curriculum vitae. Arrange for two referees to send letters of reference to be submitted to the email address or office address listed below. One referee must be the degree supervisor who will speak to applicant strengths and fit in the program. Letters must be on letterhead and signed by the referee.

Deadline for Submission of all Application Requirements: January 30th, 2023 at 11:59 pm CST Please Submit Applications to: <a href="mailto:vada.program@chimb.ca">vada.program@chimb.ca</a> or 300-753 McDermot Ave, Winnipeg, R3E 0T6 Applicant Information

Last Name	
First Name	
Street Address	
City	
Province/State, Country	
Postal Code	
Phone	
E-Mail Address	
Citizenship/Landed Immigrant Status (please specify)	Canadian Citizen Permanent Resident International Student
Preferred Gender Pronouns	
Date of Birth	

\*Your personal information is being collected under the authority of The University of Manitoba Act. The information you provide will be used for the purposes of determining eligibility for admission and financial aid and awards, assessment of academic status, statistical analysis, and communication with the applicant. Your information may be disclosed to other educational institutions for the purpose of determining eligibility for admission into joint-programs and it may be disclosed to government departments and co-sponsoring organizations to determine eligibility for financial aid and awards. Your personal information will not be used or disclosed for other purposes, unless permitted by The Freedom of Information and Protection of Privacy Act (FIPPA). If you have any questions about the collection of personal information, contact the Access and Privacy Office (tel. 204-474-9462), The University of Manitoba, 233 Elizabeth Dafoe Library, Winnipeg, Manitoba, Canada, R3T 2N2.









## **Graduate Program Information**

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	☐ Analytics	☐ Health Sciences
ned		
Departme	ent/School	University
		Department/School

total program requirements for your degree.

Academic Year	Term (F/W/S)	Course Number (if known)	Course Title









Thesis/Dissertation Title (or proposed title)

List of Publications and Presentations	ist of Dublications and Drasontations				
List of Fublications and Fresentations					









Please describe your thesis/dissertation topic and how it relates to the purpose of the VADA Program. (500 word maximum)









What are your career aspirations? (250 word maximum)

		p experience outside of a ? (250 word maximum)









What do you expect to gain from the VADA Program? How will the VADA Program advance your career goals? (500 word maximum)









List the agencies to which you have applied for funding for the 2023/24 academic year.

List the agencies to which you ha	ve applied for fullding for the 2023/24 academic year.
List any awards or funding you ha	ve already secured for the 2023/24 academic year.
diversify our program and increase	ccessibility  eing an inclusive program. As part of this commitment, we seek to  the representation of the four designated groups: women, Indigenous  of colour and persons with disabilities.
voluntary. The information you promembers of the designated groups.	complete the following questions. The completion of this form is vide will be used to track the numbers of applications received from It may also be used in the selection of candidates for admission to uals qualified for the program will be considered. Your response will
Further information can be obtaine	d by contacting the Diversity & Inclusion Facilitator at 204-474-8371.
Do you self-identify as a woman?	
Yes	No
Are you an Indigenous person? (A de person MAY be First Nations, Métis	escendant of the original peoples of North America. An Indigenous or Inuit)
Yes	No









Racialized Person: (sometimes referred to in government documents as "a member of a visible minority") A Racialized Person in Canada is someone (other than an Indigenous Person) who self-identifies as non-White in colour or non-White in racial origin, regardless of birthplace or citizenship. Do you self-identify as a "racialized person"?

radiana paradir r	
Yes	No
learning disability, a sensory i	Person with a disability includes someone who has a physical, intellectual or mpairment, and/or a mental/emotional health issue, which in interaction der their full and effective participation in society on an equal basis with
Do you self-identify as a perso	n with a disability?
Yes	No
Agreement and Signature	
The undersigned hereby certi	īy that:
1. I certify that all inform	nation contained in the application and all information I will provide later
•	erwise) related to this application, including any amendments, are and will
2. I authorize VADA to e	xchange all information regarding my application for reporting purposes.
Student Name (print):	
Student Signature:	
Date:	
Section to be completed by	the Student's Supervisor or Proposed Supervisor
I have reviewed and support	(student's name) application to the VADA
Program. I have or will write a	nd submit a letter of reference on behalf of the applicant.
l am:	
☐ A current membei	of the VADA Program Team
☐ Applying to be a m	nember of the VADA Program Team
Supervisor Name (print):	
Supervisor Signature:	



Date:







## **Current VADA Program Team Members**

Name	Department/School/ Faculty	University	Areas of Expertise
Pourang Irani	Computer Science	Manitoba	Human-computer interaction; information visualization
Lisa Lix	Community Health Sciences	Manitoba	Analysis of longitudinal/repeated measures data; quality of administrative health databases; multivariate analyses of quality life and behavioural health outcomes
Andre Kushniruk	Health Information Science	Victoria	Evaluation of the effects of technology; human-computer interaction; cognitive science
Elizabeth Borycki	Health Information Science, Social Dimensions of Health	Victoria	Patient and health information technology safety, quality and usability; health information technology management and strategy
Xuekui Zhang	Mathematics and Statistics	Victoria	Statistical genomics, bioinformatics, machine learning, mixture models, design of clinical trials
Laura Cowen	Mathematics and Statistics	Victoria	Statistical methods to study population dynamics, particularly through the use of capture-recapture methods and applications
George Tzanetakis	Computer Science	Victoria	Digital signal processing; machine learning; human and computer interaction
Alex Thomo	Computer Science	Victoria	Algorithms for big graphs; distributed data; MapReduce; social networks
Julien Arino	Mathematics	Manitoba	Mathematical population dynamics in epidemiology
Jason Leboe- McGowan	Psychology	Manitoba	Human cognition, specifically learning and memory
Gary Van Domselaar	Bioinformatics	Manitoba	Microbial bioinformatics including metagenomics, molecular diagnostics, computational genomics and pathogenomics









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Pingzhao Hu	Biochemistry & Medical Genetics	Manitoba	Novel machine learning and statistical algorithms related to bioinformatics and statistical genetics
Depeng Jiang	Community Health Sciences	Manitoba	Longitudinal analysis and multilevel models, personcentered statistical approaches (latent class analysis and growth mixture models), structural equation models, statistical methods for designing clinical studies and drug discovery, dynamic prediction and precision medicine on oncology, and mental health program evaluation.
Natalie Knox	Medical Microbiology	Manitoba	Microbial genomics and bioinformatics for infectious disease surveillance and detection.
Meaghan Jones	Biochemistry and Medical Genetics	Manitoba	Environmental exposures in the prenatal and early childhood periods, focusing on when and how these become biologically embedded.
Meghan Azad	Pediatrics and Child Health	Manitoba	Role of infant nutrition and the microbiome in child growth, development and resilience.
Aleeza Gerstein	Microbiology and Statistics	Manitoba	Empirical and computational methods to understand the acquisition of drug resistance and virulence in human fungal pathogens.
Lyle McKinnon	Medical Microbiology and Infectious Diseases	Manitoba	Causes and consequences of inflammation in the female genital tract, HIV target cells including those that home to the gut, and HIV transmission and acute infection.
Celine Nadon	Medical Microbiology	Manitoba	Design and delivery of national and international laboratory-based surveillance and outbreak response for enteric diseases.









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Max Turgeon	Computer Science	Manitoba	Dimension reduction methods for high-dimensional data
Abdul Roudsari	Health Information Science	Victoria	Telecare and e-health, Advanced and intelligent methods for the acquisition, processing and interpretation of data from the Electronic Patient Record.
Britt Drögemöller	Biochemistry & Medical Genetics	Manitoba	Pharmacogenomics and precision medicine.
Miguel Uyaguari	Microbiology	Manitoba	Microbiomes and antibiotic resistance genes in the aquatic environment.
Alex Kuo	Health Information Science	Victoria	Data interoperability; Health database & data warehousing; Al & Data Mining application in healthcare, and e-health.
Hezhao Ji	Medical Microbiology and Infectious Diseases	Manitoba	Development of new methodologies for HIV diagnosis and HIV drug resistance testing; HIV viral evolution and molecular HIV epidemiology; applications of next generation sequencing (NGS) technologies in HIV/AIDS; HIV/AIDS-revelant metagenomics studies.





