



CURRICULUM VITAE

Date: Dec 12, 2017

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A. POSITIONS

Current Positions *(include appointments at the University of Calgary and other institutions)*

Position	Department	Faculty	Institution	Start Date (mm/yyyy)	End Date (mm/yyyy)
Associate Professor	Production Animal Health	Veterinary Medicine	University of Calgary	09/2014	
Associate Professor	Mathematics and Statistics	Science	University of Calgary	09/2014	
Adjunct Professor	Community Health Sciences	Medicine	University of Calgary	01/2017	

Current distribution of Effort: Teaching 25 Research 60 Service 15

Previous Positions

Position	Department	Faculty	Institution	Start Date (mm/yyyy)	End Date (mm/yyyy)
Associate Professor	Math & Statistics		University of Guelph	07/2011	08/2016
Assistant Professor	Math & Statistics		University of Guelph	09/2006	06/2011

B. DEGREES / QUALIFICATIONS / TRAINING

Undergraduate (include DVM)

Degree	Institution	Location	Start Date (mm/yyyy)	End Date (mm/yyyy)
B.Sc (HONS) in Pure Mathematics and Mathematical Statistics	University of Exeter	UK	09/1992	06/1996

Graduate (include MSc, PhD)

Degree	Speciality/ Major	Supervisor	Department	Institution	Location	Start Date (mm/yyyy)	End Date (mm/yyyy)
PhD	Applied Statistics	Steve Gilmour	Applied Statistics	University of Reading	UK	09/1997	12/2001
MSc	Statistics with Applications in Medicine	Wei Liu	Math. Sciences	University of Southampton	UK	09/1996	08/1997

Postdoctoral Fellowship Training

Training Level	Speciality	Supervisor	Department	Institution	Location	Start Date (mm/yyyy)	End Date (mm/yyyy)
Research Associate	Statistics/ Disease Modelling	James Wood	Veterinary Medicine	Uni. of Cambridge	UK	07/2005	08/2006
Research Associate	Statistics/ Disease Modelling	Steve Brooks	Statistical Laboratory	Uni. of Cambridge	UK	02/2003	06/2005
Research Fellow	Statistics	Henry Wynn	Statistics	Uni. of Warwick	UK	05/2001	01/2003

C. HONOURS AND AWARDS

List honours and awards received including dates.

Dates	Honour/Award
09/1997 – 08/2000	UK Engineering Physical Sciences Research Council (EPSRC) Industrial Cooperative Award in Science and Technology (CASE) PhD Studentship

Dates
03/2003 – 02/2005

Honour/Award
UK Wellcome Trust Postdoctoral Fellowship

D. EDUCATIONAL ACTIVITIES

CREDIT COURSES TAUGHT AT THE UNIVERSITY OF CALGARY

List major contributions in course and curriculum development, teaching and administration. Where specific courses with identified hours, etc., are not available, a narrative outline below the table is recommended.

Course Number	Course Name	Role (coordinator, instructor)	Start Date	End Date	Contact Hours per year / total course length (include both)
VETM 605	Introduction to Biostatistical Methods	Coordinator & Instructor	09 / 2016	12/ 2016	36 / 36
VETM 605	Introduction to Research Methods	Coordinator & Instructor	09 / 2015	12/ 2015	36 / 36

Insert narrative outline (if required) in the space below.

Over the course of the last two academic years running the VETM 605 course, I have overseen the evolution of this course from a "Research Methods", to a more focused "Biostatistical Methods", course. This has involved the introduction of a brand-new curriculum for the course in the classroom, as well as me taking the lead in facilitating the graduate calendar changes required. Further, with the integration of biostatistical training between the Faculties of Veterinary Medicine and Medicine, along with the opening up of these courses to students from main campus (see below), we have seen a large increase in the number of students enrolled in VETM 605. Specifically, approximately 10 to 15 students were enrolled in the 2014 course, approximately 25 in 2015, approximately 45 in 2016, and this is expected to increase to 60+ next year. This too has, and continues, to require an evolution in the teaching and assessment methods used in the course.

OTHER RELEVANT TEACHING ACTIVITIES AT THE UNIVERSITY OF CALGARY

(include curriculum development, supervision of staff, contributions to educational committees, animal interactions, teaching development seminars, etc)

Biostatistics training for graduate students in VMS, CHS and other programs: The above changes to the VETM 605 course, have been introduced as part of a wider initiative I have been leading along with Herman Barkema (UCVM & CHS) and Tyler Williamson (Biostatistician in CHS) to improve the biostatistics training on Foothills campus and beyond. This has included the cross listing of the VETM 605 course as an MDCH course, and the MDCH 610 & 611 (Biostatistics I & II) courses as VETM courses. The purpose of this is to offer two separate statistical training routes for the students, one involving more

extensive training (e.g., for epidemiology students from statistics will be a major part of their research endeavors) and one involving a shorter, more contained training period (e.g., for lab-based who will be required to carry out relatively simple statistical analyses of data at the end of their experiments). These cross listed courses are also being made available to students from other faculties, with further cross listing (e.g., with Kinesiology and Nursing) mooted for the future.

Biostatistics graduate specializations: I have led efforts to introduce a new biostatistics graduate "program" at the University of Calgary. This effort has so far concentrated on interdisciplinary specializations in Biostatistics at the MSc thesis and PhD level, run jointly by the Departments of Mathematics and Statistics and Community Health Sciences. These were approved in June 2017. I am now leading efforts to introduce a brand-new course based Masters program in Biostatistics & Data Science, also expected to be run jointly by the Departments of Mathematics and Statistics and Community Health Sciences.

Statistics: I have also been involved in modernizing the statistics specializations in the MSc thesis and PhD degrees in Mathematics and Statistics (many courses taught as part of the statistic specializations will also form core components of the new Biostatistics specializations). This has included substantial modernization of the curriculum for courses STAT 701: Introduction to Probability Theory; and STAT 721: Statistical Inference. Additionally, I have co-proposed curriculum for two new courses: STAT 631 Computational Statistics and STAT 641 Statistical Learning. The newly proposed courses have been approved, and calendar changes to the statistic specializations are expected to be approved over the summer of 2017.

DVM Third Year Project: My postdoc, Vinetha Warriyar, and I were involved in helping analyse data from the fall 2016 DVM third-year project (taught by Claudia Klein).

Disease Modelling Workshop: My postdoc, Vineetha Warriyar and I have also been developing a two day workshop in Bayesian Infectious Disease Modelling. This is initially to be run as a post conference workshop at the Canadian Association of Veterinary Epidemiology and Preventive Medicine (CAVEPM) Meeting at the University of Calgary in June 2017. I have also applied to give a similar workshop at the International Biometric Society Conference in Spain in 2018.

TEACHING AT OTHER UNIVERSITIES

List major contributions in course and curriculum development, teaching and administration. Where specific courses with identified hours, etc., are not available, a narrative outline below the table is recommended.

Credit Courses

Course Number	Course Name	Role (coordinator, instructor)	Start Date	End Date	Number of Hours per year
STAT4600	Advanced Research Project in Statistics	Course Coordinator	Winter 2014		Approx. 20 (see below)

STAT6550/ STAT4050/4060	Computational Statistics/ Topics in Applied Statistics: Computational Statistics	Instructor	Winter 2014	36
STAT2050	Statistics II	Instructor	Fall 2013	36
STAT4600	Advanced Research Project in Statistics	Course Coordinator	Fall 2013	Approx. 20 (see below)
POPM6950	Geographical Epidemiology	Instructor	Summer 2012	3
STAT4600	Advanced Research Project in Statistics	Course Coordinator	Summer 2012	Approx. 20 (see below)
STAT6920	Topics in Statistics: Modelling Infectious Diseases (N.B. Reading Course)	Instructor	Winter 2012	36
STAT4600	Advanced Research Project in Statistics	Course Coordinator	Winter 2011	Approx. 20 (see below)
STAT6550/ STAT4050/4060	Computational Statistics/ Topics in Applied Statistics (Computational Statistics)	Instructor	Fall 2011	36
STAT2050	Statistics II	Instructor	Fall 2011	36
STAT3110	Introduction to Mathematical Statistics II	Instructor	Winter 2011	36
STAT2050	Statistics II	Instructor	Winter 2011	36
STAT4600	Advanced Research Project in Statistics	Course Coordinator	Winter 2011	Approx. 20 (see below)
STAT6550 STAT4050/4060	Computational Statistics/ Topics in Applied Statistics (Computational Statistics)	Instructor	Fall 2010 Fall 2010	36
STAT6920	Topics in Statistics: Modelling Infectious Diseases (N.B. Reading Course)	Instructor	Fall 2010	24
STAT2050	Statistics II	Instructor	Winter 2010	36

STAT4060	Topics in Applied Statistics: Modelling Infectious Diseases (N.B. Reading Course)	Instructor	Winter 2010	24
STAT6920	Topics in Statistics: Modelling Infectious Diseases (N.B. Reading Course)	Instructor	Fall 2009	24
STAT4050 /STAT6920	Topics in Applied Statistics: Computational Statistics/Topics in Statistics: Computational Statistics	Instructor	Fall 2009	36
POPM6950	Geographical Epidemiology	Instructor	Summer 2009	6
STAT6950	Statistical Methods for the Life Sciences	Instructor	Fall 2008	36
STAT4050 /STAT6920	Topics in Applied Statistics: Computational Statistics/ Topics in Statistics: Computational Statistics	Instructor	Fall 2008	24 (only 8 weeks taught due to parental leave)
STAT4050 /STAT6920	Topics in Applied Statistics: Computational Statistics/ Topics in Statistics: Computational Statistics	Instructor	Winter 2008	36
STAT6920	Topics in Statistics: Spatial Epidemiology (N.B. Reading Course)	Instructor	Fall 2007	24
STAT6950	Statistical Methods for the Life Sciences	Instructor	Fall 2007	36
POPM6950	Geographical Epidemiology	Instructor	Summer 2007	3
STAT2050	Statistics II	Instructor	Winter 2007	36
STAT6920	Topics in Statistics: Computational Statistics	Instructor	Winter 2007	36

Insert narrative outline (if required) in the space below.

- STAT4600: Advanced Research Projects in Statistics. Projects in this course were supervised by various individual faculty, my role as coordinator was to organize presentation days, deadlines for proposal and report, and as second marker on projects (to ensure a reasonable baseline in marking between faculty members).
- POPM6950: Geographical Epidemiology. A 5 day intensive course run in the OVC, UoGuelph, lead by Olaf Berke, to which I contributed sessions on infectious disease modelling (in 2007, 2009 and 2012), and on Bayesian hierarchical spatial modelling (in 2009).

Other Relevant Teaching Activities & Accomplishments

Include curriculum development, supervision of staff, contributions to workshops or committees.

- STAT6550 – Computational Statistics. This course was introduced, originally as a STAT6920 Topics in Statistics, by myself on my arrival at Guelph in 2006/2007. The course was based on a 16 hour course I previously taught at University of Cambridge (Monte Carlo Inference), but substantially developed to a 36 hour course, to include a core programming component, as well as new material.
- Took part in Graduate Science Fair (UC, UoG) in Fall 2010 to help recruit graduate students in the Department of Mathematics & Statistics.
- Took part in Graduate Science Fair (UC, UoG) in Fall 2009 to help recruit graduate students in the Department of Mathematics & Statistics.
- Took part in Telethon in Fall 2008, contacting personally students who have been offered places in Statistics, and Statistics-related, majors at UoG.
- Took part in Graduate Science Fair (UC, UoG) in Fall 2008 to help recruit graduate students in the Department of Mathematics & Statistics.
- Took part in Graduate Science Fair (UC, UoG) in Fall 2007 to help recruit graduate students in the Department of Mathematics & Statistics.

**CONTINUING EDUCATION FOR COLLEAGUES/PROFESSIONAL/PARAPROFESSIONAL GROUPS
(MUST INCLUDE ASSESSMENTS)**

List major contributions in course and curriculum development, teaching and administration. Where specific courses with identified hours, etc., are not available, a narrative outline below the table is recommended.

Course Number	Course Name	Role (coordinator, instructor)	Start Date	End Date	Number of Hours per year
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Insert narrative outline (if required) in the space below.

F. RESEARCH & CLINICAL TRAINEES SUPERVISED

UNDERGRADUATE STUDENTS SUPERVISED

List current and past trainees, both directly supervised and co-supervised. Include summer students.

Trainee Name	Level (summer student, DVM student, other undergraduate student)	Role (supervisor, co-supervisor)	Institution	Start Date (mm/yyyy)	End Date (mm/yyyy)	Source of Funding
William Lee	UBC co-op student	Supervisor	UCalgary	05/2016	12/2016	Production Animal Health/Startup funds
Susannah Ripley	Summer student	Supervisor	UoGuelph	05/2014	08/2014	NSERC USRA
Anu Stanley	Summer student	Supervisor	UoGuelph	05/2013	08/2013	UoG Math/Stats Dept. Scholarship
Nadia Bifolchi	Summer student	Supervisor	UoGuelph	05/2010	08/2010	NSERC USRA
Abbie Gardner	Summer student	Supervisor	UoGuelph	05/2009	08/2009	UoG Math/Stats Dept. Scholarship
Sanjeena Subedi	Summer student	Supervisor	UoGuelph	05/2008	08/2008	UoG Math/Stats Dept. Scholarship
Babak Habibzadeh	Summer student	Supervisor	UoGuelph	05/2008	08/2008	UoG Math/Stats Dept. Scholarship

GRADUATE STUDENTS SUPERVISED

List current and past graduate students, both directly supervised and co-supervised. For graduate students, if the student did not complete, please put withdrawn or incomplete under completion date.

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Role (supervisor, co-supervisor)	Institution	Start Date (mm/yyyy)	Completion Date (mm/yyyy)	Source of Funding
Ali Syed Navqi	PhD	CHS, Biostatistics	Co-Supervisor	UCalgary	09/2015		NSERC
Tahsin Ferdous	MSc	Statistics	Supervisor	UCalgary	09/2015		NSERC
Mark Lowerison	PhD	CHS, Biostatistics	Co-Supervisor	UCalgary	09/2015		Self-Funding
Md. Mahsin	PhD	Statistics	Supervisor	UCalgary	09/2015		NSERC
Salha Qahl	PhD	Statistics	Supervisor	UCalgary	07/2015		Saudi Cultural Bureau, NSERC
Waleed Almutiry	PhD	Statistics	Supervisor	UoGuelph (visiting UCVM from 01/2016)	01/2014		Saudi Cultural Bureau, NSERC, CFI
Justin Angevaare	PhD	Statistics	(Main) Co-Supervisor	UoGuelph	09/2014		OMAFRA, NSERC, CFI
Carolyn Augusta	PhD	Statistics	(Main) Co-Supervisor	UoGuelph	09/2014		OMAFRA, NSERC, CFI
Lea Enns	MSc	Statistics	Supervisor	UoGuelph	09/2014	12/2015	OMAFRA, NSERC, CFI
Susannah Ripley	USRA	Statistics	Supervisor	UoGuelph	05/2014	08/2014	OMAFRA, NSERC, CFI
(Chloe) Longyao Cai	MSc	Statistics	Supervisor	UoGuelph	09/2011	04/2013	OMAFRA, NSERC, CFI
Anu Stanley	MSc	Statistics	(Main) Co-Supervisor	UoGuelph	09/2013	12/2014	OMAFRA, NSERC, CFI
Razvan	PhD	Statistics	Supervisor	UoGuelph	09/2012	09/2016	OMAFRA,

Romanescu							NSERC, CFI
Scott Hunt	PhD	Statistics	Supervisor	UoGuelph	09/2012	Withdrew 04/2015	OMAFRA, NSERC, CFI
Tulsi Paudel	PhD	Statistics	Supervisor	UoGuelph	09/2012	Withdrew 01/2016	OMAFRA, NSERC, CFI
Gyanendra Pokharel	PhD	Statistics	Supervisor	UoGuelph	09/2011	03/2015	OMAFRA, NSERC, CFI
Angie Dobbs	MSc	Statistics	Supervisor	UoGuelph	09/2011	04/2013	OMAFRA, NSERC, CFI
Xuan Fang	MSc	Statistics	Supervisor	UoGuelph	09/2010	04/2012	OMAFRA, NSERC, CFI
Mingying Fang	MSc	Statistics	Supervisor	UoGuelph	09/2010	08/2011	OMAFRA, NSERC, CFI
Rajat Malik	PhD	Statistics	Supervisor	UoGuelph	09/2010	03/2015	OMAFRA, NSERC, CFI
Lin Zhang	PhD	Statistics	Supervisor	UoGuelph	09/2009	09/2013	OMAFRA, NSERC, CFI
Abbie Gardener	MSc	Statistics	(Main) Co- Supervisor	UoGuelph	09/2009	08/2012	OMAFRA, NSERC, CFI
Irene Vrbik	MSc	Statistics	(Main) Co- Supervisor	UoGuelph	09/2009	08/2010	OMAFRA, NSERC, CFI
Babak Habibzadeh	MSc	Statistics	Supervisor	UoGuelph	09/2009	08/2010	OMAFRA, NSERC, CFI
(Dasha) Daria Martchenko	MSc	Statistics	(Main) Co- Supervisor	UoGuelph	09/2009	04/2011	OMAFRA, NSERC, CFI
Nadia Bifolchi	PhD	Statistics	(Main) Co- Supervisor	UoGuelph	09/2009	04/2015	OMAFRA, NSERC, CFI
Sanjeena Dang (nee Subedi)	MSc	Statistics	Co- Supervisor	UoGuelph	09/2008	08/2009	OMAFRA, NSERC, CFI
Jourdan Gold	PhD	Statistics	(Main) co- supervisor	UoGuelph	09/2008	01/2015	OMAFRA, NSERC, CFI
Lorna Deeth	PhD	Statistics	Supervisor	UoGuelph	09/2007	09/2012	OMAFRA, NSERC, CFI
(Helen) Hau Yi Chung	MSc	Statistics	Supervisor	UoGuelph	09/2007	04/2009	OMAFRA, NSERC, CFI

GRADUATE STUDENT COMMITTEE MEMBERSHIPS

List current and past graduate students whose committees you were on. Indicate whether you were a full committee member, candidacy examiner or thesis/defence examiner.

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner)	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Arfan Arzal	PhD	Statistics	UCalgary	Thesis Defence Examiner	01/2018	01/2018
James Cheaveau	MSc	Microbiology & Infectious Diseases	UCalgary	Full Supervisory Committee Member	09/2017	
Kaida Cai	PhD	Statistics	UCalgary	Full Supervisory Committee Member	09/2016	
Mobolaji Ogunsolu	PhD	Statistics	UCalgary	Neutral Chair, Defence Examiner	05/2017	05/2017
Zach Moyer	PhD	Statistics	UCalgary	Neutral Chair, Defence Examiner	04/2017	04/2017
Haotian Song	MSc	Statistics	UCalgary	Neutral Chair, Defence Examiner	08/2016	08/2016
Ivan Krukov	PhD	Biochemistry and Molecular Biology – Bioinformatics	UCalgary	Candidacy Exam	02/2017	02/2017
Diego Nobrega	PhD	Veterinary Medical	UCalgary	Full Supervisory Committee	06/2016	

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner)	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Yang Yu	PhD	Sciences Biomedical Engineering	UCalgary	Member Full Supervisory Committee Member	09/2015	
Sonja Dunemann	PhD	Veterinary Medical Sciences	UCalgary	Full Supervisory Committee Member	04/2016	
Aaron Mathankeri	MSc	Biochemistry & Molecular Biology (Bioinformatics)	UCalgary	Full Supervisory Committee Member	03/2015	08/2016
Long Long Huang	PhD	Statistics	UCalgary	Full Supervisory Committee Member	10/2014	12/2016
Yang Tang	PhD	Statistics	UoGuelph	Advisory committee member	01/2014	Transferred to McMaster 09/2014
Jan Rudy	MASc	Engineering	UoGuelph	Advisory committee member	01/2014	
Brad Woodworth	PhD	Integrative Biology	UoGuelph	Advisory committee member	01/2014	
Madeleine McGreer	MSc	Integrative Biology	UoGuelph	Advisory committee member	02/2013	12/2014
Monica Wong	PhD	Statistics	UoGuelph	Advisory committee member	09/2011	Transferred to McMaster 09/2014

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner)	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Irene Vrbik	PhD	Statistics	UoGuelph	Advisory committee member		Completed
Weiqiang Wang	PhD	Statistics	UoGuelph	Advisory committee member		Completed
Notice Ringa	PhD	Statistics	UoGuelph	Advisory committee member		Completed
(Victor) Shengun Xie	PhD	Statistics	UoGuelph	Advisory committee member		Completed
Sanjeena Subedi	PhD	Statistics	UoGuelph	Advisory committee member		Completed
Jinning Zhang	MSc	Statistics	UoGuelph	Advisory committee member		Completed
Cameron Redsell – Montgomerie	MSc	Statistics	UoGuelph	Advisory committee member		Completed
Matthew Sparling	MSc	Statistics	UoGuelph	Advisory committee member		Completed
Michael McDonald	MSc	Statistics	UoGuelph	Advisory committee member		Completed
Ali Lorfard	MSc	Statistics	UoGuelph	Advisory committee member		Completed
Maryam Shanehchian	MSc	Statistics	UoGuelph	Advisory committee member		Completed
Logan Heslip	MSc	Statistics	UoGuelph	Advisory committee member		Completed

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner)	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Rick Chin	MSc	Statistics	UoGuelph	Advisory committee member		Completed
Tal Avgar	MSc	Integrative Biology	UoGuelph	Advisory committee member		Completed
Hien Le	PhD	Population Medicine (OVC)	UoGuelph	Advisory committee member		Completed
Mike Faddock	PhD	Engineering	UoGuelph	Advisory committee member		Completed
Wade Milton	MSc	Engineering	UoGuelph	Advisory committee member		Completed
Kate Bottoms	MSc	Population Medicine (OVC)	UoGuelph	Advisory committee member		Completed
Nadia Bifulchi [my student]	PhD	Statistics	UoGuelph	Thesis defense committee member	04/2015	04/2015
Gyanendra Pokharel [my student]	PhD	Statistics	UoGuelph	Thesis defense committee member	03/2015	03/2015
Rajat Malik [my student]	PhD	Statistics	UoGuelph	Thesis defense committee member	03/2015	03/2015
Jourdan Gold [my student]	PhD	Statistics	UoGuelph	Thesis defense committee member	01/2015	01/2015
Carolyn Augusta [my student]	MSc	Statistics	UoGuelph	Thesis defense committee	08/2014	08/2014

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner) member	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Yasaman Farahani	PhD	Computer Science	UWindsor	Thesis defense (External Examiner)	04/2014	04/2014
Yuhong Wei	PhD	Statistics	UoGuelph	Thesis defense committee (Chair)	03/2014	03/2014
Brian Franczak	PhD	Statistics	UoGuelph	Thesis defense committee (Chair)	03/2014	03/2014
Kathryn Morris	PhD	Statistics	UoGuelph	Thesis defense committee (Chair)	01/2014	01/2014
Lin Zhang [my student]	PhD	Statistics	UoGuelph	Thesis defense committee member	01/2014	01/2014
Sithar Dorjee	PhD	Veterinary Medicine	AVC, UPEI	Thesis defense (External Examiner)	12/2013	12/2013
Lorna Deeth [my student]	PhD	Statistics	UoGuelph	Thesis defense committee member	10/2012	10/2012
Sanjeena Subedi	PhD	Statistics	UoGuelph	Thesis defense committee member	07/2012	07/2012
Asheber Sewalem	MSc	Statistics	UoGuelph	Thesis defense committee chair	05/2012	05/2012

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner)	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Yuhong Wei	MSc	Statistics	UoGuelph	Thesis defense committee chair	04/2012	04/2012
Xuan Fang [my student]	MSc	Statistics	UoGuelph	Thesis defense committee member	01/2012	01/2012
Angie Dobbs [my student]	MSc	Statistics	UoGuelph	Thesis defense committee member	12/2011	12/2011
Mingying Fang [my student]	MSc	Statistics	UoGuelph	Thesis defense committee member	09/2011	09/2011
William Petrchich	MSc	Statistics	UoGuelph	Thesis defence committee chair	08/2011	08/2011
Mike Faddock	MSc	Engineering	UoGuelph	Thesis defence committee member	07/2011	07/2011
Daria Martchecko [my student]	MSc	Statistics	UoGuelph	Thesis defence committee member	04/2011	04/2011
Tatiana Petukhova	MSc	Statistics	UoGuelph	Thesis defence committee member	04/2011	04/2011
Michael McDonald	MSc	Statistics	UoGuelph	Thesis defence committee member	10/2010	10/2010
Cameron	MSc	Statistics	UoGuelph	Thesis	09/2010	09/2010

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner)	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Redsell-Montgomerie				defence committee member		
Abbie Gardner [my student]	MSc	Statistics	UoGuelph	Thesis defence committee member	08/2010	08/2010
Irene Vrbik [my student]	MSc	Statistics	UoGuelph	Thesis defence committee member	08/2010	08/2010
Matthew Sparling	MSc	Statistics	UoGuelph	Thesis defence committee member	08/2010	08/2010
Dan Gillis	PhD	Statistics	UoGuelph	Thesis defence committee member	04/2010	04/2010
Xiaojian Yang	MSc	Statistics	UoGuelph	Thesis defence chair	05/2009	05/2009
Ali Lorfard	MSc	Statistics	UoGuelph	Thesis defence committee member	10/2009	10/2009
Sanjeena Subedi [my student]	MSc	Statistics	UoGuelph	Thesis defence committee member	08/2009	08/2009
Mateen Shaikh	MSc	Statistics	UoGuelph	Thesis defence chair	08/2009	08/2009
Wade Miltion	MSc	Engineering	UoGuelph	Thesis defence committee member	07/2009	07/2009

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner)	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Jeffrey Andrews	MSc	Statistics	UoGuelph	Thesis defence committee member	07/2009	07/2009
(Helen) Hau Yi Chung [my student]	MSc	Statistics	UoGuelph	Thesis defence committee member	04/2009	04/2009
Babak Habibzadeh [my student]	MSc	Statistics	UoGuelph	Thesis defence committee member	03/2009	03/2009
Ralucca Amariei	MSc	Statistics	UoGuelph	Thesis defence committee member	04/2007	04/2007
Justin Angevaare [my student]	PhD	Statistics	UoGuelph	Candidacy Examiner	02/2016	02/2017
Carolyn Augusta [my student]	PhD	Statistics	UoGuelph	Candidacy Examiner	02/2016	02/2016
Ying Yi	PhD	Statistics	UoGuelph	Candidacy Examiner	08/2015	08/2015
Waleed Almutiry [my student]	PhD	Statistics	UoGuelph	Candidacy Examiner	05/2015	05/2015
Paula Murray	PhD	Statistics	UoGuelph	Candidacy exam (Chair)	10/2013	10/2013
Kathryn Morris	PhD	Statistics	UoGuelph	Candidacy exam (Chair)	06/2013	06/2013

Trainee Name	Level (MSc student, PhD student, Dr. med. vet.)	Graduate Program	Institution	Role (e.g., full committee member vs. candidacy examiner vs., thesis/defence examiner)	Start Date (mm/yyyy)	Completion Date (mm/yyyy)
Nadia Bifulchi [my student]	PhD	Statistics	UoGuelph	Candidacy Examiner	07/2012	07/2012
Rajat Malik [my student]	PhD	Statistics	UoGuelph	Candidacy Examiner	07/2012	07/2012
Lin Zhang [my student]	PhD	Statistics	UoGuelph	Candidacy examiner	12/2011	12/2011
Ali Lorfard	PhD	Statistics	UoGuelph	Candidacy exam (Chair)	12/2011	12/2011
Andrew McEachern	PhD	Statistics	UoGuelph	Candidacy exam (Chair)	12/2011	12/2011
Moyi Li	PhD	Statistics	UoGuelph	Candidacy exam (Chair)	12/2011	12/2011
Colin Lee	PhD	Statistics	UoGuelph	Candidacy exam (Chair)	03/2011	03/2011
Jourdan Gold [my student]	PhD	Statistics	UoGuelph	Candidacy examiner (2 nd attempt)	10/2010	10/2010
Jeffrey Andrews	PhD	Statistics	UoGuelph	Candidacy examiner	06/2010	06/2010
Jourdan Gold [my student]	PhD	Statistics	UoGuelph	Candidacy examiner	04/2010	04/2010
Chong Liu	PhD	Statistics	UoGuelph	Candidacy examiner	04/2007	04/2007
Rick Chin	MSc	Statistics	UoGuelph	Project examination committee member	08/2007	08/2007

CLINICAL TRAINEES SUPERVISED

List current and past interns and clinical residents.

Trainee Name	Level (intern, clinical resident)	Role (supervisor, co-supervisor)	Institution	Start Date (mm/yyyy)	End Date (mm/yyyy)	Source of Funding
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POST-DOCTORAL FELLOWS SUPERVISED

List current and past post-doctoral fellows (PDF).

PDF Name	Institution	Start Date (mm/yyyy)	End Date (mm/yyyy)	Source of Funding
Vineetha Warriyar	UCalgary	04/2016		Eyes High, NSERC
Gyanendra Pokharel	UCalgary	05/2015		NSERC, PIMS, Math/Stats, CIHR
Grace Pui Sze Kwong	UoGuelph	10/2009	08/2014	OMAFRA, Canadian Swine Health Board, NSERC

OTHER SUPERVISED RESEARCH STAFF

List current and past research staff, both directly supervised and co-supervised.

Name	Level (technician; research assistant; research associate; visiting scientist; specialist/advisor; Management and Professional Staff (MaPS))	Role (supervisor, co-supervisor)	Institution	Start Date (mm/yyyy)	End Date (mm/yyyy)
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OTHER SUPERVISED TECHNICAL STAFF

List current and past teaching technical staff, both directly supervised and co-supervised.

Name	Level (technician; research assistant; research associate; visiting scientist; specialist/advisor; Management and Professional Staff (MaPS))	Role (supervisor, co-supervisor)	Institution	Start Date (mm/yyyy)	End Date (mm/yyyy)
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Name	Level (technician; research assistant; research associate; visiting scientist; specialist/advisor; Management and Professional Staff (MaPS))	Role (supervisor, co-supervisor)	Institution	Start Date (mm/yyyy)	End Date (mm/yyyy)
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G. SERVICE ACTIVITIES

UNIVERSITY ADMINISTRATIVE SERVICE

Please list in reverse chronological order.

Dates	Activity
2017	Member, University of Calgary Biostatistics Centre (UCBC) Workshop Organizing Committee (Visualization using R, Duncan Murdoch (Western))
2017 -	Member, Data Science Education Task Force
2017 -	Chair, Biostatistics Education Oversight Committee
2016	UCVM Research Scholarship Leave Committee
2016	UCVM AIHS Summer Research Studentship Reviews Committee
2016	UCVM Student Appeals Committee
2015	UCVM Research Scholarship Leave Committee
2015 -2016	Chair of Biostatistical Methods Course / Cross-Departmental Teaching Sub-Committee of University of Calgary Biostatistics Centre (UCBC) Group
2015 - 2016	Chair of Graduate Program Sub-Committee of University of Calgary Biostatistics Centre (UCBC) Group
2015 -	Member of Executive Committee of University of Calgary Biostatistics Centre (UCBC) Group
2014 -	Member of University of Calgary Biostatistics Centre (UCBC) Group
2013/14	UoGuelph: Math/Stats Dept. Graduate Committee (Vice-chair)
2013	UoGuelph: College (CPES) NSERC-RTI Review Committee (Member)
2013/2014	UoGuelph: College (CPES) Tenure & Promotion Committee (Elected member, two years – resigned upon leaving UoG after one year)
2012/2013	UoGuelph: Math/Stats Departmental Tenure & Promotion Committee (Elected member, one year)
2012	UoGuelph: Ontario Veterinary College/CPES CRC Tier 2 Chair Search Committee (Appointed Member)

Dates	Activity
2017	Member, University of Calgary Biostatistics Centre (UCBC) Workshop Organizing Committee (Visualization using R, Duncan Murdoch (Western))
2017 -	Member, Data Science Education Task Force
2017 -	Chair, Biostatistics Education Oversight Committee
2016	UCVM Research Scholarship Leave Committee
2016	UCVM AIHS Summer Research Studentship Reviews Committee
2016	UCVM Student Appeals Committee
2015	UCVM Research Scholarship Leave Committee
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2015 - 2016	Chair of Graduate Program Sub-Committee of University of Calgary Biostatistics Centre (UCBC) Group
2015 -	Member of Executive Committee of University of Calgary Biostatistics Centre (UCBC) Group
2014 -	Member of University of Calgary Biostatistics Centre (UCBC) Group
2013/14	UoGuelph: Math/Stats Dept. Graduate Committee (Vice-chair)
2013	UoGuelph: College (CPES) NSERC-RTI Review Committee (Member)
2013/2014	UoGuelph: College (CPES) Tenure & Promotion Committee (Elected member, two years – resigned upon leaving UoG after one year)
2012/2013	UoGuelph: Math/Stats Departmental Tenure & Promotion Committee (Elected member, one year)
2012	UoGuelph: Ontario Veterinary College/CPES CRC Tier 2 Chair Search Committee (Appointed Member)
2011/2012	UoGuelph: Math/Stats Dept. Curriculum Committee
2011/2012	UoGuelph: Mathematics/Statistics Colloquium Committee (Chair)
2010/2011	UoGuelph: Mathematics/Statistics Colloquium Committee (Chair)
2010/2011	UoGuelph: Math/Stats Dept. Graduate Committee (Member)
2010/2011	UoGuelph: Math/Stats Dept. IT Colloquium Committee (Member/Chair)
2009/2010	UoGuelph: Mathematics & Statistics Dept. Chair Search Committee (Elected Member)
2009/2010	UoGuelph: Math/Stats Dept. Statistics Colloquium Organizer (Chair)
2009/2010	UoGuelph: Math/Stats Dept. Graduate Committee (Member)
2009/2010	UoGuelph: Math/Stats Dept. IT Committee (Member)

Dates	Activity
2017	Member, University of Calgary Biostatistics Centre (UCBC) Workshop Organizing Committee (Visualization using R, Duncan Murdoch (Western))
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2014 -	Member of University of Calgary Biostatistics Centre (UCBC) Group
2013/14	UoGuelph: Math/Stats Dept. Graduate Committee (Vice-chair)
2013	UoGuelph: College (CPES) NSERC-RTI Review Committee (Member)
2013/2014	UoGuelph: College (CPES) Tenure & Promotion Committee (Elected member, two years – resigned upon leaving UoG after one year)
2012/2013	UoGuelph: Math/Stats Departmental Tenure & Promotion Committee (Elected member, one year)
2012	UoGuelph: Ontario Veterinary College/CPES CRC Tier 2 Chair Search Committee (Appointed Member)
2008/2009	UoGuelph: Math/Stats Dept. Statistics Colloquium Series Organizer (Chair)
2008/2009	UoGuelph: Math/Stats Dept. Graduate Committee (Member)
2008/2009	UoGuelph: Math/Stats Dept. Chair's Policy & Advisory Committee (Member)
2008/2009	UoGuelph: Math/Stats Dept. Information Technology Committee (Member)
2007/2008	UoGuelph: Math/Stats Dept. Statistics Colloquium Series Organizer (Chair)
2007/2008	UoGuelph: Math/Stats Dept. Curriculum Committee (Member)
2007/2008	UoGuelph: Math/Stats Dept. Chair's Policy & Advisory Committee (Member)
2007/2008	UoGuelph: Math/Stats Dept. Information Technology Committee (Member)
2006/2007	UoGuelph: Math/Stats Dept. Statistics Colloquium Series Organizer (Chair)
2006/2007	UoGuelph: Math/Stats Dept. Curriculum Committee (Member)

Dates	Activity
2017	Member, University of Calgary Biostatistics Centre (UCBC) Workshop Organizing Committee (Visualization using R, Duncan Murdoch (Western))
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2012/2013	UoGuelph: Math/Stats Departmental Tenure & Promotion Committee (Elected member, one year)
2012	UoGuelph: Ontario Veterinary College/CPES CRC Tier 2 Chair Search Committee (Appointed Member)
2006/2007	UoGuelph: Math/Stats Dept. IT Committee (Member)
2006/2007	UoGuelph: Math/Stats Dept. Statistics Strategic Planning Group (Co-Chair)

PROFESSIONAL ASSOCIATIONS & CONTRIBUTIONS

Include professional associations, society memberships and roles, editorships, peer-review committees, conference & workshop organization, contributions to government organizations etc.

Dates	Activity
2017 –	Member of NSERC Discovery Grant Mathematics & Statistics Evaluation Panel
2017	Member, Canadian Veterinary & Preventive Medicine (CAVEPM) Conference 2017, University of Calgary, Student Poster Awards Committee
2017	Member, Canadian Veterinary & Preventive Medicine (CAVEPM) Conference 2017, University of Calgary, Local Organizing Committee
2016 - Present	Associate Editor, Journal of the Royal Statistical Society Series C (Applied Statistics)
2016	CANSSI Workshop on Novel Probabilistic Methods for Decision Support Systems for Food Security in Canada, Fields Institute, Toronto, Organizing Committee
2013 - Present	Poultry Health Research Network (Member)
2012	Statistical Society of Canada Annual Meeting (Chair of session on Monte Carlo Inferences for Stochastic Processes)
2011/2012	Statistical Society of Canada Annual Meeting Local Organizing Committee (Member, Chair of IT Subcommittee)
2012 -	Ontario Zoonotic Influenza Working Group (OZIWG) – (Member of Surveillance Sub Working Group, and Response Plans Sub Working Group)
2012	Statistical Society of Canada Annual Meeting Student Presentation Awards (Assessor/Reviewer)
2008	International Biometric Society Conference, Dublin, Ireland (Chair of session on Modelling Infectious Diseases)
2008	Bio-Mathematics & Statistics Working Group (BioMS) Annual Symposium on Infectious Disease Modelling Organizer (Chair of Morning session)
2007/2008	Bio-Mathematics & Statistics Working Group (BioMS) Annual Symposium on Infectious Disease Modelling Organizer (Co-chair)
2006/2007	Statistical Society of Canada Southern Ontario New Investigator Committee (Member)
Society Memberships	
2012 - Present	Member of the International Environmetrics Society
2010 - Present	Member of the Canadian Society for Epidemiology and Biostatistics

2006 – Present	Member of the Royal Statistical Society
2006 - Present	Member of American Statistical Association
2006 - Present	Member of Statistical Society of Canada
2006 - Present	Member of the International Biometrics Society
2006 - Present	Member of the International Society for Bayesian Analysis
2006 - Present	Member of the Institute of Mathematical Statistics

Refereeing for Journals:

1. 15+ papers as AE of Journal of the Royal Statistical Society Series C (Jan 2016 -)
2. Biometrics (February 2015; revision August 2015)
3. Statistics in Medicine (November 2014)
4. BMC Medical Informatics (March 2014)
5. Biometrics (August 2013)
6. Statistics in Medicine (Aug 2013)
7. Scientific Reports (July 2013)
8. Statistics in Medicine (Feb 2013)
9. Statistics in Medicine (Aug 2012)
10. Journal of the Royal Statistical Society, Series A (June 2012)
11. Journal of Agricultural, Biological and Environmental Statistics (May 2012)
12. Journal of Applied Statistics (March 2012)
13. BMC Veterinary Research (March 2011; revision June 2011)
14. Epidemiology and Infection (July 2010)
15. Epidemics (Dec 2008)
16. Journal of the Royal Statistical Society, Series C (March 2007; revision February 2008)
17. Journal of Agricultural, Biological and Environmental Statistics (June 2006)
18. Equine Veterinary Journal (May 2006)
19. Journal of Agricultural, Biological and Environmental Statistics (Sept 2005)
20. Journal of the Royal Statistical Society, Series C (June 2005)
21. Proceedings of the Royal Society: Biological Sciences (Nov 2004)

Refereeing for the Following Research Funding Bodies:

1. NSERC (Discovery Grant) (Jan 2017)

2. NSERC (Discovery Grant) (Dec 2016)
3. AIHS (Summer Research Studentship) (June 2016)
4. New Zealand Marsden Fund (Fast Start) (August 2014)
5. MITACS (Accelerate Internship) (March 2014)
6. NSERC (Discovery Grant) (Dec 2013)
7. NSERC (Discovery Grant) (Dec 2012)
8. NSERC (Discovery Grant) (Dec 2011)
9. NSERC (Discovery Grant) (Dec 2009)
10. University of Guelph (Internal) (May 2009)
11. The Home of Rest for Horses (August 2006)

Other Refereeing

1. Reviews Abstracts for International Conference: Applied Mathematics, Modeling and Computational Science Conference (Jan 2014)
2. Reviewed Book Proposal for Oxford University Press (Sept 2013)
3. Applied Mathematics, Modelling and Computer Science (AMMCS) Conference Proceedings Volume (Jan 2014)

COMMUNITY SERVICE (INCLUDING OUTREACH)

Dates	Activity
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H. RESEARCH SUPPORT

FUNDED RESEARCH

Copy and paste the funding table below for each additional grant or contract. A brief description under each grant of the its key purpose and your role is very useful in the tenure and promotion process.

ACTIVE GRANTS

Title	Statistical inference and planning for complex infectious disease systems		
Funding Source (e.g., NSERC)	NSERC	Program Name (e.g., Discovery Grant)	Discovery Grant
Principal Applicant /	Rob Deardon	Your Role	Principal investigator

Project Leader
Award Type Operating **Total Amount** \$125,000
 (operating, equipment, travel, conference, salary)
Start Date (mm/yyyy) 05/2015 **End Date** (mm/yyyy) 04/2020

Title Spatial Modelling of Infectious Diseases: Environment and Health

Funding Source Canadian Statistical Sciences Institute (CANSSI) **Program Name** Collaborative Team Research Grants
 (e.g., NSERC)
Principal Applicant / Project Leader Mahmoud Torabi (Manitoba) **Your Role** Co-PI
Award Type Operating & Travel **Total Amount** \$180,000
 (operating, equipment, travel, conference, salary)
Start Date (mm/yyyy) 04/2018 **End Date** (mm/yyyy) 03/2021

Title Modelling campylobacteriosis risk in Canada through the various environmental and foodborne sources of exposure in a climate change perspective.

Funding Source CIHR **Program Name** (e.g., Discovery Grant)
 (e.g., NSERC)
Principal Applicant / Project Leader Julie Arsenault **Your Role** Co-applicant ???
Award Type ??? **Total Amount** \$???
 (operating, equipment, travel, conference, salary)
Start Date (mm/yyyy) 09/2018 **End Date** (mm/yyyy) 08/2021

Title Rocky Mountain Data Science Centre

Funding Source Canadian Statistical Sciences Institute (CANSSI) **Program Name** Health Science Collaborating Centre
 (e.g., NSERC)
Principal Applicant / Project Leader N/A (5 Co-PIs) **Your Role** Co-Principal Investigator
Award Type Seed Funding **Total Amount** \$10,000
 (operating, equipment, travel, conference, salary)
Start Date (mm/yyyy) 01/2017 **End Date** (mm/yyyy) 12/2020

Title Bridging the Evidence Gap: Understanding Patient and Physician Choices for Treatment in Early Rheumatoid Arthritis

Funding Source (e.g., NSERC)	The Arthritis Society	Program Name (e.g., Discovery Grant)	Instructor Salary
Principal Applicant / Project Leader	Glen Hazelwood	Your Role	Co-principal investigator
Award Type (operating, equipment, travel, conference, salary)	Salary (for Hazelwood)	Total Amount	\$180,000
Start Date (mm/yyyy)	09/2016	End Date (mm/yyyy)	05/2019

Title Bridging the Evidence Gap: Understanding Patient and Physician Choices for Treatment in Early Rheumatoid Arthritis

Funding Source (e.g., NSERC)	CIHR	Program Name (e.g., Discovery Grant)	Operating Grant
Principal Applicant / Project Leader	Glen Hazelwood	Your Role	Co-investigator
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$342,691
Start Date (mm/yyyy)	09/2015	End Date (mm/yyyy)	08/2019

Title A pragmatic registry-based randomized trial of drug tapering in rheumatoid arthritis

Funding Source (e.g., NSERC)	CIHR	Program Name (e.g., Discovery Grant)	Project Grant (CRT)
Principal Applicant / Project Leader	Glen Hazelwood	Your Role	Co-applicant
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$835,000
Start Date (mm/yyyy)	09/2018	End Date (mm/yyyy)	08/2021

PENDING GRANTS

Title Systematic optimization of stem cell expansion and differentiation processes for the production of pancreatic beta cells useful in the treatment of diabetes

Funding Source (e.g., NSERC)	CIHR / NSERC	Program Name (e.g., Discovery Grant)	Collaborative Health Research Project
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Title	Complex mathematical and statistical modeling of between-farm disease transmission in the Ontario swine industry		
Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	OMAFRA/University of Guelph Partnership
Principal Applicant / Project Leader	Rob Deardon	Your Role	Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$56,000
Start Date (mm/yyyy)	09/2014	End Date (mm/yyyy)	08/2017

Title	Efficient inference of infectious disease transmission models which incorporate genomic data		
Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	Highly Qualified Personnel (HQP)
Principal Applicant / Project Leader	Rob Deardon / Justin Angevaare	Your Role	Co-Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Salary for Angevaare	Total Amount	\$63,000
Start Date (mm/yyyy)	09/2014	End Date (mm/yyyy)	08/2017

Title	Novel Probabilistic Methods for Decision Support Systems for food Security in Canada		
Funding Source (e.g., NSERC)	Canadian Statistical Sciences Institute (CANSSI)	Program Name (e.g., Discovery Grant)	Workshop Grant
Principal Applicant / Project Leader	Michael Escobar (UToronto)	Your Role	Co-applicant
Award Type (operating, equipment, travel, conference, salary)	Conference	Total Amount	\$19,900
Start Date (mm/yyyy)	01/2016	End Date (mm/yyyy)	12/2016

Title	Individual-level models for infectious disease spread		
Funding Source (e.g., NSERC)	NSERC	Program Name (e.g., Discovery Grant)	Discovery Grant
Principal Applicant / Project Leader	Rob Deardon	Your Role	Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$75,000
Start Date (mm/yyyy)	05/2010	End Date (mm/yyyy)	04/2015

Title	Stochastic approximations of individual-level infectious disease models		
Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	Highly Qualified Personnel (HQP)
Principal Applicant / Project Leader	Rob Deardon / Razvan Romanescu	Your Role	Co-Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Salary for Romanescu	Total Amount	\$63,000
Start Date (mm/yyyy)	09/2012	End Date (mm/yyyy)	08/2015

Title	The design and analysis of experiments and observational studies on infectious disease spread in the livestock industries		
Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	OMAFRA/University of Guelph Partnership
Principal Applicant / Project Leader	Rob Deardon	Your Role	Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$99,500
Start Date (mm/yyyy)	09/2012	End Date (mm/yyyy)	08/2015

Title	Development of risk-based and consequence-based approached to sureveillance in swine populations using PRRS virus as a model		
Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	OMAFRA/University of Guelph Partnership
Principal Applicant / Project Leader	Zvonimir Poljak	Your Role	Co-investigator
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$ 82,500
Start Date (mm/yyyy)	09/2012	End Date (mm/yyyy)	08/2015

Title	Infectious disease transmission models that incorporate network uncertainty		
Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	Highly Qualified Personnel (HQP)
Principal Applicant / Project Leader	Rob Deardon / Carolyn Augusta	Your Role	Co-Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Salary for Augusta	Total Amount	\$34,600
Start Date (mm/yyyy)	09/2012	End Date (mm/yyyy)	08/2014

Title Computational Statistics and Computational Mathematics with Applications in Biology and Physics

Funding Source (e.g., NSERC) NSERC

Program Name (e.g., Discovery Grant) Research Tools and Instruments

Principal Applicant / Project Leader Paul McNicholas (Guelph, now McMaster)

Your Role Co-PI

Award Type (operating, equipment, travel, conference, salary) Equipment

Total Amount \$36,130

Start Date (mm/yyyy) 01/2012

End Date (mm/yyyy) 12/2012

Title Evaluation of disease / infection control in animal diseases

Funding Source (e.g., NSERC) Canadian Swine Health Board

Program Name (e.g., Discovery Grant)

Principal Applicant / Project Leader Zvonimir Poljak

Your Role Co-investigator

Award Type (operating, equipment, travel, conference, salary) Operating

Total Amount \$ 225,000

Start Date (mm/yyyy) 09/2010

End Date (mm/yyyy) 08/2013

Title The interplay between spatial- and network-based infectious disease models

Funding Source (e.g., NSERC) OMAFRA

Program Name (e.g., Discovery Grant) Highly Qualified Personnel (HQP)

Principal Applicant / Project Leader Rob Deardon / Nadia Bifulchi

Your Role Co-Principal Investigator

Award Type (operating, equipment, travel, conference, salary) Salary for Bifulchi

Total Amount \$55,600

Start Date (mm/yyyy) 09/2010

End Date (mm/yyyy) 08/2013

Title Centre for Public Health and Zoonoses

Funding Source (e.g., NSERC) CFI

Program Name (e.g., Discovery Grant) Leading Edge Fund

Principal Applicant / Project Leader Jan Sargeant (UoGuelph)

Your Role Co-PI

Award Type (operating, equipment, travel, conference, salary) Equipment and infrastructure

Total Amount \$2.2M (185,582 for RD)

Start Date (mm/yyyy) 01/2009

End Date (mm/yyyy) 12/2014

Title Understanding the spatial and temporal spread and clinical signs associated with various genotypes of the Porcine Reproductive and Respiratory Syndrome (PRRS) in Ontario

Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	OMAFRA/University of Guelph Partnership
Principal Applicant / Project Leader	Cate Dewey (UoGuelph)	Your Role	Co-investigator
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$61,000 (\$25,000 for RD)
Start Date (mm/yyyy)	09/2009	End Date (mm/yyyy)	08/2013

Title	Spatial and Network Individual-level Models of Infectious Disease Spread within a Bayesian Statistical Framework via Markov Chain Monte Carlo (MCMC)		
Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	OMAFRA/University of Guelph Partnership
Principal Applicant / Project Leader	Rob Deardon	Your Role	Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$140,000
Start Date (mm/yyyy)	09/2009	End Date (mm/yyyy)	08/2013

Title	Using scoring rules to detect poor model fit in infectious disease models		
Funding Source (e.g., NSERC)	OMAFRA	Program Name (e.g., Discovery Grant)	Highly Qualified Personnel (HQP)
Principal Applicant / Project Leader	Rob Deardon / Lin Zhang	Your Role	Co-Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Salary for Zhang	Total Amount	\$55,600
Start Date (mm/yyyy)	09/2009	End Date (mm/yyyy)	08/2012

Title	The spatio-temporal analysis of infectious diseases		
Funding Source (e.g., NSERC)	NSERC	Program Name (e.g., Discovery Grant)	Discovery Grant
Principal Applicant / Project Leader	Rob Deardon	Your Role	Principal Investigator
Award Type (operating, equipment, travel, conference, salary)	Operating	Total Amount	\$36,000
Start Date (mm/yyyy)	05/2007	End Date (mm/yyyy)	04/2010

ACTIVE CONTRACTS

Title		Program Name (e.g., Discovery Grant)	
Funding Source (e.g., NSERC)		Your Role	
Principal Applicant /			

Project Leader**Award Type**

(operating, equipment, travel, conference, salary)

Start Date (mm/yyyy)**Total Amount****End Date** (mm/yyyy)**PENDING CONTRACTS****Title****Funding Source**

(e.g., NSERC)

Principal Applicant /**Project Leader****Award Type**

(operating, equipment, travel, conference, salary)

Start Date (mm/yyyy)**Program Name**

(e.g., Discovery Grant)

Your Role**Total Amount****End Date** (mm/yyyy)**PREVIOUS CONTRACTS****Title****Funding Source**

(e.g., NSERC)

Principal Applicant /**Project Leader****Award Type**

(operating, equipment, travel, conference, salary)

Start Date (mm/yyyy)**Program Name**

(e.g., Discovery Grant)

Your Role**Total Amount****End Date** (mm/yyyy)**INSTITUTIONAL FUNDING***Copy and paste the funding table below for each additional grant or contract.*

Title	Democratizing Complex Infectious Disease Data Analysis		
Funding Source (e.g., NSERC)	UCalgary	Program Name (e.g., Discovery Grant)	Eyes High Postdoctoral Fellowship
Principal Applicant / Project Leader	Rob Deardon	Your Role	Principal investigator
Award Type (operating, equipment, travel, conference, salary)	Postdoctoral Salary	Total Amount	\$100,000
Start Date (mm/yyyy)	05/2016	End Date (mm/yyyy)	04/2018

Title	Approximate methods of inference for spatial infectious disease models		
Funding Source (e.g., NSERC)	UCalgary	Program Name (e.g., Discovery Grant)	Mathematics & Statistics Departmental Postdoctoral Scholarship
Principal Applicant /	Rob Deardon	Your Role	Principal investigator

Project Leader**Award Type**

(operating, equipment, travel, conference, salary)

Postdoctoral Salary

Total Amount

\$75,000

Start Date (mm/yyyy)

05/2015

End Date (mm/yyyy)

04/2018

Title**Funding Source**

(e.g., NSERC)

Dept. of Production

Animal Health,

UCalgary

Program Name

(e.g., Discovery Grant)

PAH Summer

Studentship

Principal Applicant /**Project Leader**

Rob Deardon

Your Role

Principal investigator

Award Type

(operating, equipment, travel, conference, salary)

Studentship (to fund

William Lee)

Total Amount

\$???

Start Date (mm/yyyy)

???

End Date (mm/yyyy)

???

Title

Workshop on Visualization

Funding Source

(e.g., NSERC)

VPR

Program Name

(e.g., Discovery Grant)

Principal Applicant /**Project Leader**

Rob Deardon

Your Role

Principal investigator

Award Type

(operating, equipment, travel, conference, salary)

Total Amount

\$1000

Start Date (mm/yyyy)

???

End Date (mm/yyyy)

???

Title

Workshop on Visualization

Funding Source

(e.g., NSERC)

O'Brien ...

Program Name

(e.g., Discovery Grant)

Principal Applicant /**Project Leader**

Karen Kopchiuk

Your Role

Principal investigator

Award Type

(operating, equipment, travel, conference, salary)

Total Amount

\$???

Start Date (mm/yyyy)

???

End Date (mm/yyyy)

???

Title	Statistical Modelling of Porcine Reproductive and Respiratory Syndrome Spread		
Funding Source (e.g., NSERC)	University of Guelph	Program Name (e.g., Discovery Grant)	Kefer Research Fund
Principal Applicant / Project Leader	Rob Deardon	Your Role	Principle Investigator
Award Type (operating, equipment, travel, conference, salary)	Salary for PhD student	Total Amount	\$45,000
Start Date (mm/yyyy)	09/2007	End Date (mm/yyyy)	08/2010

I. ACADEMIC PUBLICATIONS

Please use whatever division of publications makes sense for your discipline. Typically you should include:

Peer Reviewed Papers (*in reverse chronological order, including authors, year, title, journal, volume, complete page numbers; include accepted or in-press papers*) (*For tenure and promotion files, an explanation of your contributions to multi-authored papers is useful*).

[Research Group Members shown in italics]

1. M. E. Lipson, R. **Deardon**, N. Switzer, C. de Gara, C. Ball & S. Grondin “Double gloving and practice attitudes among surgeons and surgical trainees” accepted to appear in Canadian Journal of Surgery.
2. D. Toms, R. Deardon & M. Ungrin (2017) “Climbing the mountain: Experimental design for efficient optimization of stem cell bioprocessing” in the Journal of Biological Engineering, Vol. 11, No. 1.
3. R. *Romanescu* & R. **Deardon** (2017) “Fast inference for network models of infectious disease spread” published online in Scandanavian Journal of Statistics (DOI: 10.1111/sjos.12270).
4. G. *Pokharel* & R. **Deardon** (2016) “Gaussian process emulators for spatial models of infectious disease” in the Canadian Journal of Statistics, 44(4), 480-501.
5. L. *Deeth* & R. **Deardon** (2016) “Data aggregation for spatio-temporal individual-level models of infectious disease transmission” in Spatial and Spatio-temporal Epidemiology, 17, 95-104.
6. R. *Malik*, R. **Deardon** & G.P.S. *Kwong* (2016) “Parameterizing spatial models of infectious disease spread using sampling-based likelihood approximations” in PLoS One, 11(1): e0146253. doi: 10.1371/journal.pone.0146253.
7. R. *Romanescu* & R. **Deardon** (2016) “Modelling two strains of disease via aggregate-level infectivity curves” published in the Journal of Mathematical Biology, 72(5), 1195-1224.
8. L. *Deeth*, R. **Deardon** & D. Gillis (2015) “Model choice using the Deviance Information Criterion for latent conditional individual-level models of infectious disease spread” in Epidemiologic Methods, 4(1), 47-68.
9. T. J. McKinley, J. Ross, R. **Deardon** & A. Cook (2014) “Simulation-based Bayesian inference for epidemic models” in Computational Statistics & Data Analysis, 71, 434-447.
10. R. *Malik*, R. **Deardon**, G.P.S. *Kwong* & B. J. Cowling (2014) “Individual-level modeling of the spread of influenza within households” in Journal of Applied Statistics, 41(7), 1578-1592.
11. G. *Pokharel* & R. **Deardon** (2014) “Supervised learning and prediction of spatial epidemics” in Spatial and Spatio-Temporal Epidemiology, 11, 59-77.
12. L. *Deeth* & R. **Deardon** (2013) “Latent conditional individual level models for infectious disease modelling” in The International Journal of Biostatistics, 9(1), 75-93.
13. S. *Subedi*, Z. Feng, R. **Deardon** & F. Schenkel (2013) “SNP selection for predicting a quantitative trait” in the Journal of Applied Statistics, 40(3), 600-613.
14. N. *Bifulchi*, R. **Deardon** & Z. Feng (2013) “Spatial approximations of network-based individual level infectious disease models” in Spatial and Spatio-temporal Epidemiology , 6, 59-70.

15. T. Agvar, **R. Deardon** & J. Fryxell (2013) "An empirically parameterized individual based model of animal movement, perception and memory" in *Ecological Modelling*, 251: 158-172.
16. K. Bottoms, Z. Poljak, C. Dewey, **R. Deardon**, D. Holtkamp & R. Friendship (2013) "Evaluation of external biosecurity practices on southern Ontario farms" in *Preventive Veterinary Medicine*, 109(1-2):58-68.
17. G.P.S. *Kwong*, Z. Poljak, **R. Deardon** & C. Dewey (2013) "Bayesian analysis of risk factors for infection with a genotype of porcine reproductive and respiratory syndrome virus in Ontario swine herds using monitoring data" in *Preventive Veterinary Medicine*, 110(3-4):405-17.
18. K. Bottoms, Z. Poljak, B. Friendship, J. Alsop, **R. Deardon** & C. Dewey (2013) "An assessment of external biosecurity on southern Ontario swine farms, and its application to surveillance on a geographic level" in the *Canadian Journal of Veterinary Research*, 77(4), 241-253.
19. I. *Vrbik*, **R. Deardon**, Z. Feng, A. Gardner & J. Braun (2012) "Using individual-level models to model the spatio-temporal dynamics of combustion" in *Bayesian Analysis*, 7(3), 615 – 638. (Funded by: NSERC).
20. G.P.S. *Kwong* & **R. Deardon** (2012) "Linearized forms of individual-level models for large-scale spatial infectious disease systems" in *Bulletin of Mathematical Biology*, 74(8), 1912 – 37. (Funded by: NSERC, OMAFRA).
21. Y. Hosseinkashi, S. Chenouri, C. Small & **R. Deardon** (2012) "A Stochastic Graph Process for Epidemic Modelling" in *Canadian Journal of Statistics*, 40(1), 55 – 67. (Funded by: NSERC).
22. **R. Deardon**, B. Habibzadeh & H. Y. Chung (2012) "Infectious diseases models incorporating spatial measurement error" in *Journal of Applied Statistics*, 39(5), 1139 – 1150. (Funded by: NSERC).
23. J. Gallienne, C. Gregg, E. LeBlanc, N. Yaakob, D. Wu, K. Davies, N. Rawlings, Pierson, **R. Deardon**, & Bartlewski (2012) "Correlations between ultrasonographic characteristics of corpora lutea (CL) and systemic concentrations of progesterone (P4) during the discrete stages of CL lifespan and secretory activity in cyclic ewes" in *Experimental Biology and Medicine*, 237, 505 – 515.
24. H. Le, Z. Poljak, **R. Deardon** & C. Dewey (2012) "Clustering of and risk factors for the porcine high fever disease in a region of Vietnam" in *Trans-boundary and Emerging Diseases*, 59(1), 49 – 61.
25. K. Bottoms, Z. Poljak, C. Dewey, **R. Deardon**, D. Holtkamp & R. Friendship (2012) "Investigation of strategies for the introduction and transportation of replacement gilts on southern Ontario sow farms" in *BMC Veterinary Research*, 8, 217.
26. A. *Gardner*, **R. Deardon** & G. A. Darlington (2011) "Goodness-of-fit measures for individual-level infectious disease models in a Bayesian framework" in *Spatial and Spatio-temporal Epidemiology*, 2(4), 273 – 281. (Funded by: NSERC, OMAFRA).
27. **R. Deardon**, S. P. Brooks, B. T. Grenfell, M. J. Keeling, M. J. Tildesley, N. J. Savill, D. J. Shaw & M. E. J. Woolhouse (2010), "Inference for individual-level models of infectious diseases in large populations" in *Statistica Sinica*, 20(1), 239-261. (Funded by: Wellcome Trust, UK).
28. B. *Habibzadeh* & **R. Deardon** (2010), "The misspecification of infectious and latent periods in space-time epidemic models" in *Statistical Communications in Infectious Diseases*, Vol. 2: Issue 1, Article 7. (Funded by: NSERC).

29. T. J. McKinley, A. Cook & **R. Deardon** (2009) "Inference in epidemic models without likelihoods" in *The International Journal of Biostatistics*, 5(1), Article 24. (Funded by: NSERC).
30. P.E. Caines, **R. Deardon** & H. P. Wynn (2009) "Bayes' nets of time series: stochastic realizations and projections" in *Optimal Experimental Design and Related Areas* (Ed: L Pronzato and A Zhiglavsky), 155-166, Springer.
31. A. J. Grant, M. Sheppard, **R. Deardon**, S. P. Brown, G. Foster, C. E. Bryant, D. J. Maskell & P. Mastroeni (2008) "Caspase 3-dependent phagocyte death during systemic *Salmonella enterica* serovar Typhimurium infection of mice" in *Immunology*, 125(1), 28-37.
32. M. J. Tildesley, **R. Deardon**, N. J. Savill, P. Bessell, S. P Brooks, M. E. J. Woolhouse, B. T. Grenfell & M. J. Keeling (2008) "Accuracy of models for the 2001 foot-and-mouth disease epidemic" in *Proceedings of the Royal Society B*, 275(1641), 1459-1468. (Funded by: Wellcome Trust, UK).
33. N. J. Savill, D. J. Shaw, **R. Deardon**, M. J. Tildesley, M. J. Keeling, S. P. Brooks, M. E. J. Woolhouse & B. T. Grenfell (2007), "Effect of data quality on estimates of farm infectiousness trends in the UK 2001 foot-and-mouth disease epidemic" in *Journal of the Royal Society Interface*, 4, 235-241. (Funded by: Wellcome Trust, UK).
34. **R. Deardon**, S. G. Gilmour, N. A. Butler, K. Phelps & R. Kennedy (2006), "Designing field experiments which are subject to representation bias" in *Journal of Applied Statistics*, 33, 7, 665-680. (Funded by: EPSRC, UK).
35. M. J. Tildesley, N. J. Savill, D. J. Shaw, **R. Deardon**, S. P. Brooks, M. E. J. Woolhouse, B. T. Grenfell & M. J. Keeling (2006), "Optimal reactive vaccination strategies for an outbreak of foot-and-mouth disease in Great Britain" in *Nature*, 440, 1080, 83-86. (Funded by: Wellcome Trust, UK).
36. N. J. Savill, D. J. Shaw, **R. Deardon**, M. J. Tildesley, M. J. Keeling, S. P. Brooks, M. E. J. Woolhouse & B. T. Grenfell (2006), "Topographic determinants of foot and mouth disease transmission in the UK 2001 epidemic" in *BMC Veterinary Research*, Vol. 2:3. (Funded by: Wellcome Trust, UK).
37. **R. Deardon**, S. G. Gilmour, N. A. Butler, K. Phelps & R. Kennedy (2004), "A method for ascertaining and controlling representation bias in field trials for airborne plant pathogens" in the *Journal of Applied Statistics*, 31, 3, 2004, 329-343.

Submitted Refereed Papers *(in reverse chronological order, including authors, year, title, journal)*

1. Almutiry, Warriyar & Deardon "Continuous Time Individual-Level Models of Infectious Disease: EpiLLMCT" submitted to the *Journal of Statistical Software*.
2. Augusta, Deardon & Taylor "Deep learning for supervised classification of epidemic curves" submitted to *Spatial and Spatiotemporal Epidemiology*.
3. Almutiry & Deardon "Incorporating Contact Network Uncertainty in Individual Level Models of Infectious Disease Using Approximate Bayesian Computation" submitted to the *The International Journal of Biostatistics*.
4. Almutiry & Deardon "Spatial contact network uncertainty in individual level models of infectious disease transmission" submitted to *Spatial and Spatiotemporal Epidemiology*.
5. Warriyar & Deardon "Individual Level Modelling of Infectious Disease Data: EpiLLM" submitted to the *Journal of Statistical Software*

6. Romanescu & Deardon “Optimal surveillance of epidemics over power law networks” submitted to PLoS One (revision requested).
7. Pokharel & Deardon “Spatially informed back-calculation for spatio-temporal infectious disease models” submitted to Statistical Communications in Infectious Diseases (revision requested).
8. Petukhova, Ojkic, McEwen, Deardon & Poljak “Assessment of ARIMA, GLARMA and random forest models for predicting Influenza A virus frequency in swine in Ontario, Canada” submitted to PLOS One (revision requested).

Published Book Chapters, Books or Monographs (as author or editor; include accepted or in-press) -

**Primary publication source of this work.*

1. **R. Deardon**, X. Fang & G.P.S. Kwong (2015) “Statistical modelling of spatio-temporal infectious disease transmission” in Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases (Ed: D. Chen, B. Moulin, J. Wu), 211-232, John Wiley & Sons.
2. P.E. Caines, **R. Deardon** & H. P. Wynn (2009), book chapter: “Bayes nets of time series: stochastic realizations and projections” in *Optimal Experimental Design and Related Areas* (Ed: L Pronzato and A Zhiglavsky) pp 155-166, Springer.
3. P.E. Caines, **R. Deardon** & H. P. Wynn (2002) “Conditional Orthogonality and Conditional Stochastic Realization” in *New Directions in Mathematical Systems Theory and Optimization*, Springer.

Published Abstracts (in reverse chronological order, including authors, year, title, journal, volume, complete page numbers; include accepted or in press; specify whether peer-reviewed or not; indicate if presentation was oral or poster.)

1. Lipson, Rochon, Deardon, Heine, MacLean, Tang, & Buie (2018) “Perioperative outcomes of older adults undergoing elective curative resection for rectal cancer” , [American Society of Colon and Rectal Surgeons \(ASCRS\) Annual Scientific Meeting, Nashville, TN, USA](#)
2. Lipson, Deardon, Switzer, DeGara, Ball & Grondin (2016) “Double gloving and practice attitudes among surgeons and surgical trainees”, 2016 Canadian Surgery Forum.
3. G. Pokharel & **R. Deardon** (2014) “Spatially Informed Back-Calculation for Spatio-Temporal Infectious Disease Models” in the Proceedings of the 11th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences.
4. P.E. Caines, **R. Deardon** & H. P. Wynn (2002) “Conditional independence and general factorisations in times series graphical models” in the 2002 Proceedings of the American Statistical Association, Physical and Engineering Sciences Section [CD-ROM], Alexandria, VA: American Statistical Association.

Patents and Intellectual Property Rights (include authors, title, agency, year)

Research Reports or Reports Produced for the Government

Others (include authors, title, agency, year)

1. **R. Deardon** & S. P. Brooks (2007). "Bayesian modelling of the spatio-temporal dynamics of large-scale epidemics." Statistical Series #2007-312, Department of Mathematics & Statistics, University of Guelph.
2. P. E. Caines, **R. Deardon** & H. P. Wynn (2007) "Algebraic Methods for Conditional Independence in Time Series Graphical Models" Technical Report, Statistical Series #2007-313, Department of Mathematics & Statistics, University of Guelph.
3. M. J. Keeling, M. J. Tildesley, N. J. Savill, M. E. J. Woolhouse, D. J. Shaw, **R. Deardon**, S. P. Brooks, & B. T. Grenfell (2007) "Veterinary epidemiology: Vaccination strategies for foot-and-mouth disease" (reply to Brief Communication Arising by Kitching et al), *Nature*, 445, E12-E13, 8 February 2007.
4. M. J. Keeling, M. J. Tildesley, N. J. Savill, M. E. J. Woolhouse, D. J. Shaw, **R. Deardon**, S. P. Brooks, & B. T. Grenfell (2006) response to letter, "FMD control strategies" by Wing- field, Miller & Honhold in *The Veterinary Record*, May 20, 2006.

J. PRESENTATIONS

Please include relevant presentations in divisions that are appropriate for your discipline. Typical divisions include:

Invited scientific presentations (*this would typically be invited presentations of original work as key note speakers at meetings or plenary sessions, presentations at other universities, research institutes, governments or industry*)

1. Invited E-Poster Presentation at Joint Statistical Meetings, Vancouver, Canada (July 2018). Deep learning for statistical inference in infectious disease systems. July 2018.
2. McGill workshop on Causality
3. Invited talk at GEOMED Conference, Porto, Portugal (Sept. 2017) "Individual-level infectious disease models incorporating aggregate level spatial structure"
4. Invited talk at the Joint Statistical Meetings, Baltimore, USA (Aug. 2017) "Individual-level infectious disease models incorporating aggregate level spatial structure"
5. Two-day post-conference workshop at the Canadian Veterinary Epidemiological and Preventive Medicine (CAVEPM) Conference (June 2017), University of Calgary, Calgary, Canada "Bayesian Infectious disease modeling"
6. Alberta Mathematics Dialogue Conference, MacEwan University, Edmonton, Canada (May 2017) "An introduction to individual-level infectious disease modelling within a Bayesian statistical framework" (Plenary)
7. Calgary Applied and Industrial Mathematical Sciences Conference (CAIMSC), University of Calgary, Calgary, Canada (April 2017) "An introduction to Bayesian individual-level infectious disease modelling" (Keynote)
8. BIRS Workshop on Mathematical Biology for Understanding Emerging Infectious Diseases at the Human-Animal-Environment Interface: A One Health Approach, Banff, Canada (Nov 2016) "Real Time Modelling of Epidemics (A Statistician's Perspective)"
9. Joint Statistical Meetings, Chicago, USA (July 2016) "Gaussian process emulation for spatial infectious disease models"
10. International Workshop on Applied Probability (IWAP), Toronto, Canada (June 2016) "Approximate Bayesian computation for epidemic models with uncertain underlying contact networks"
11. Statistical Society of Canada Annual Meeting, Brock University, St. Catharines, Canada (May 2016) "Infectious disease modelling in the presence of underlying contact network uncertainty"
12. Pacific Institute of Mathematical Sciences (PIMS), Calgary, Canada (May 2016) "Bayesian study design for non-linear systems: a disease transmission experiment case study"
13. Annual Conference on Neural Information Processing Systems (NIPS), Montreal, Canada (Dec. 2015) "ABC-based inference for epidemic models with uncertain underlying contact networks"
14. GEOMED Conference, University of Florence, Italy (Sept. 2015) "Approximate inference for spatial epidemic models"

15. Bioinformatics Symposium, University of Calgary, Canada (May 2015) "Computational statistics, disease modelling and design"
16. Descriptive and Predictive Methods in the Study of Communicable Diseases: Biomathematics & Biostatistics Workshop, University of Guelph/Fields Institute, Guelph, Canada (May 2015) "Emulator based inference for models of large-scale infectious disease systems"
17. Evidence-based Decision Support for Food Security Workshop, University of Warwick, Coventry, UK (April 2015) "Emulator based inference for models of large-scale infectious disease systems"
18. OMAFRA Emergency Management Expo, Guelph, Canada (December 2014) "Using experimental design to better understand infectious disease spread in the livestock industries"
19. 36th Annual Meeting of Alberta Statisticians, Edmonton, Canada (Oct 2014) "Bayesian optimal design of disease transmission experiments (and other Issues in disease modeling)."
20. Statistical Society of Canada Annual Meeting, Toronto, Canada (May 2014) "Optimal experimental and study design for infectious disease systems of animals."
21. Simulation Models of Infectious Diseases (SIMID) Workshop, Hasselt, Belgium (April 2014) "Optimal experimental design for infectious disease systems of animals."
22. Statistics in Society Conference, University of Waterloo (July 2013) "Approximate methods of parameter estimation for spatial epidemic models."
23. International Environmetrics Meeting, Anchorage, Alaska (June 2013) "Parameterizing individual-level models of infectious disease using sampling-based likelihood approximations"
24. Statistical Society of Canada Annual Meeting, Guelph, Canada (June 2012) "Computationally Efficient forms of individual-level models for large-scale spatial infectious disease"
25. OMAFRA Emergency Management Expo, Guelph, Canada (September 2011) "A statistical approach to modeling infectious diseases"
26. BIRS Workshop on Front propagation in heterogeneous media: mathematical, numerical, and statistical issues in modelling a forest fire front, BIRS, Banff, Alberta, Canada (Oct 2010) "Modelling the dynamics of combustion via individual-level epidemic models"
27. NICDS Workshop on Statistical Methods for Geographic and Spatial Data in the Management of Natural Resources, University of Montreal, Montreal, Canada (Mar 2010) "Finite Mixtures of Infectious Disease Models"
28. Statistical Society of Canada, Vancouver (June 2009) "Inference for epidemic models without likelihoods"
29. Bio-Mathematics & Statistics Working Group (BioMS) Symposium, University of Guelph, Canada (Oct 2007) "Modelling infectious diseases over time and space (a statistical perspective)"
30. European Meeting of Statisticians, Torun, Poland (July 2006) "Modelling the UK 2001 foot-and-mouth epidemic" (as part of MCMC Applications session).
31. Health Protection Agency, London, UK (July 2005) "The UK 2001 Foot-and-mouth Disease Epidemic (A Case Study in Individual Level Spatial Epidemiology)"
32. Royal Statistical Society Workshop, London, UK (May 2003) "Using Bayesian MCMC to model the spatio-temporal dynamics of foot-and-mouth disease."

Short meeting presentations (*this would typically include abstract or other short oral presentations at meetings. If peer-reviewed or selected, please note.*)

1. Canadian Association of Veterinary Epidemiology and Preventive Medicine Meeting (CAVEPM), Ontario Veterinary College, University of Guelph, Canada (June 2016) "Infectious Disease Transmission Models with Uncertain Underlying Contact Network Information"
2. Canadian Association of Veterinary Epidemiology and Preventive Medicine Meeting (CAVEPM), UPEI (June 2014) "Optimal experimental design for infectious disease systems of animals"
3. Statistical Society of Canada Annual Meeting, University of Alberta, Canada (May 2013) "Parameterizing individual-level models of infectious disease using sampling-based likelihood approximations"
4. International Society for Veterinary Epidemiology and Economics (ISVEE XIII), Maastricht, The Netherlands (August 2012) "Latent-conditional individual-level models for infectious disease transmission"
5. Statistical Society of Canada, Wolfville, Nova Scotia (June 2011) "Measures of goodness of fit of infectious disease models in a Bayesian framework"
6. Joint Statistical Meetings, Vancouver, Canada (Aug 2010) "Finite Mixtures of Infectious Disease Models"
7. Canadian Association of Veterinary Epidemiology and Preventive Medicine Meeting (CAVEPM), Guelph (May 2010) "Accounting for spatial measurement error in models of infectious disease spread"
8. International Biometric Conference, Dublin, Ireland (July 2008) "Inference for infectious disease models via approximate Bayesian computation (ABC)"
9. Statistical Society Of Canada, St. John's, Canada. (June 2007) "How much data does it take to parameterize an epidemic?"
10. GEOMED Conference, University of Cambridge, UK (September 2005) "Modelling the UK 2001 foot-and-mouth epidemic."
11. Workshop on recent advances in modelling spatio-temporal data Southampton, University of Southampton, UK (May 2005) "Modelling the UK 2001 foot-and-mouth epidemic."

Invited Continuing Education/Professional Presentations

Lay Presentations (*this would typically include presentations to lay organizations, NGOs, etc that are directed to a lay audience*)

1. *Ontario Livestock and Poultry Council (OLPC) (Feb, 2012)* "The design and analysis of experiments and observational studies on infectious disease spread in the livestock industries"
2. *Ontario Livestock and Poultry Council (OLPC) (Aug, 2009)* "Spatial and Network Individual-level Models of Infectious Disease Spread"

Media presentations

Research Seminars

1. **Mcmaster (Nov 2017)**
2. Department of Epidemiology, Biostatistics & Occupational Health, McGill University, Canada (Feb. 2017) "Inferring the spatial dynamics of infectious diseases via Gaussian process emulation"
3. Department of Mathematics & Statistics, National University of Singapore (April 2016) "Emulator based inference for models of large-scale infectious disease systems"
4. School of Public Health, University of Hong Kong (March 2016) "Optimal experimental and study design for infectious disease systems of animals."
5. Department of Mathematics & Statistics, Simon Fraser University, Canada (Feb. 2016) "Approximate Bayesian inference for large-scale epidemic models."
6. Harvard School of Public Health, Boston, USA (March 2015) "Bayesian optimal design methods for infectious disease transmission studies"
7. Department of Community Health Sciences (Methods Seminar), University of Calgary (Feb 2015) "A Bayesian Approach to Infectious Disease Transmission Modelling -- Dealing with Uncertainty"
8. Department of Mathematics & Statistics, University of Victoria, Canada (Jan. 2015) "Sampling-based approximate inference for large-scale infectious disease transmission models"
9. Department of Mathematics & Statistics, University of Calgary, Canada (Nov .2014) "The ABCs of infectious disease modelling."
10. Faculty of Veterinary Medicine, University of Calgary, Canada (April 2014) "Bayesian experimental design for disease transmission experiments"
11. Atlantic Veterinary College, University of PEI, Canada (Dec 2013) "A Bayesian approach to dealing with uncertainty in infectious disease modeling"
12. Department of Mathematics & Statistics, University of Windsor, Canada (Oct 2012) "Efficient forms of individual-level models for large-scale spatial infectious disease."
13. Fields Institute (IDEA Seminar), Toronto, Canada (April 2012) "A Bayesian approach to dealing with uncertainty in infectious disease modelling"
14. Department of Mathematics & Statistics, University of Guelph, Canada (March 2012) "Efficient forms of individual-level models for large-scale spatial infectious disease"
15. Department of Mathematics & Statistics, McMaster University, Canada (Feb 2012) "Efficient forms of individual-level models for large-scale spatial infectious disease"
16. Department of Mathematics & Statistics, University of Manitoba (Jan 2012) "Computationally efficient forms of spatial infectious disease models for large populations."
17. School of Life Sciences, University of Warwick, UK (Nov 2011) "Latent conditional individual level models for infectious disease modelling"
18. Department of Statistics, University of Toronto, Canada (October 2011) "Efficient forms of individual-level models for large-scale spatial infectious disease"

19. School of Public Health, University of Saskatoon, Canada (Aug 2011) "Individual-level models of infectious disease."
20. School of Public Health, University of Hong Kong, Hong Kong (April 2010) "Modelling infectious disease spread via individual-level models"
21. Department of Epidemiology, Biostatistics & Public Health, McGill University, Montreal, Canada (Dec 2009) "Likelihood-free inference for epidemic models"
22. Department of Epidemiology, Biostatistics & Public Health, McGill University, Montreal, Canada (Dec 2009) "Individual-level modelling of infectious diseases"
23. Ontario Livestock and Poultry Council, Guelph, Canada (Aug 2009) "Introduction to the statistical modeling of infectious disease spread"
24. Dalla Lana School of Public Health, Biostatistics & Epidemiology, University of Toronto, Canada (Feb 2009) "Inference for epidemic models without likelihoods"
25. Department of Statistics & Actuarial Science, University of Western Ontario, Canada (Jan 2009) "Inference for epidemic models without likelihoods"
26. Department of Computing and Information Science, University of Guelph, Canada (Oct 2007) "Modelling infectious diseases over time and space (a Bayesian statistical perspective)"
27. Department of Mathematics & Statistics, York University, Canada (Sept 2007) "Modelling the spatio-temporal dynamics of infectious diseases: the UK 2001 foot-and-mouth epidemic"
28. Department of Statistics & Actuarial Science, University of Waterloo, Canada (Sept 2007) "Modelling the spatio-temporal dynamics of infectious diseases: the UK 2001 foot-and-mouth epidemic"
29. Public Health Agency of Canada, Guelph, Canada (May 2007) "The statistical modelling of infectious diseases in time and space"
30. SSC Southern Ontario New Investigator Workshop, University of Waterloo, Canada (February 2007) "The statistical modelling of infectious diseases in time and space"
31. Department of Mathematics & Statistics, University of Guelph, Canada (November 2006) "Modelling infectious diseases over time and space"
32. Population Medicine, Ontario Veterinary College, University of Guelph, Canada (November 2006) "Modelling infectious diseases over time and space"
33. Health Protection Agency, London, UK (July 2005) "Modelling the UK 2001 Foot-and-Mouth Epidemic: A Bayesian MCMC Approach"
34. Department of Statistics, Lund University, Sweden (March 2005) "The UK 2001 Foot-and-mouth Disease Epidemic (A Case Study in Individual Level Spatial Epidemiology)."
35. Imperial College London, UK (June 2004) "Modelling the UK 2001 Foot-and-Mouth Epidemic: A Bayesian MCMC Approach"
36. MRC-Biostatistics Unit, University of Cambridge, UK (March 2004) "The UK 2001 Foot-and-mouth Disease Epidemic (A Case Study in Individual Level Spatial Epidemiology)"
37. Department of Mathematics & Statistics, Queen Mary, University of London (May 2000) "The use of an airborne plant disease dispersal simulation in designing agricultural experiments which minimise representation bias"

Poster Presentations

(Research Group Members shown in italics)

1. Ungrin, Toms, Yu, Al-Ani, Deardon, Korbitt. Micro tissue optimization for practical cell-based therapies. International Conference on Stem Cell Engineering. October 2016. Toronto, Canada.
2. Angevaare, J.* , Feng, Z., Deardon, R. (2016) Phylodynamic individual level models: strategies for simulation and inference. Southwestern Ontario Graduate Mathematics and Statistics Conference, Guelph, ON (contributed poster presentation)
3. Angevaare, J.* , Feng, Z., Deardon, R. (2016) Phylodynamic individual level models: strategies for simulation and inference. Joint Statistical Meetings, Chicago, IL (contributed poster presentation)
4. Angevaare, J.* , Feng, Z., Deardon, R. (2016) Phylodynamic individual level models: strategies for simulation and inference. Annual Meeting of the Statistical Society of Canada, Brock University, St. Catharines, ON (contributed poster presentation)
5. A Simple Alarm for Early Detection of Epidemics over Networks, by Romanescu, R., Deardon, R., 2016 SIAM Uncertainty Quantification conference, Lausanne, Switzerland.
6. Augusta, C., 'Introduction to natural language processing', Southwestern Ontario Graduate Mathematics & Statistics Conference (SOGMSC'16), University of Guelph, June, 2016. (Talk)
7. Toms, Chiu, Kondro, Raharjo, Biernaskie, Deardon & Ungrin. Efficient optimization and scalable production of bio-printable cellular aggregates. Tissue Engineering, Biofabrication & 3D-Bioprinting in Life Sciences, March 2016, Boston, USA.
8. *Romanescu & Deardon*. Inference in a Two Strain Individual Level Model via Infectivity Curves. Evidence-based Decision Support for Food Security Workshop, University of Warwick, Coventry, UK (April 2015)
9. *Kwong, Poljak, Deardon, Dewey*. Evidence-based Decision Support for Food Security Workshop, University of Warwick, Coventry, UK (April 2015)
10. *Romanescu & Deardon*. Inference in a Two Strain Individual Level Model via Infectivity Curves. Canadian Society of Epidemiology and Biostatistics Student's Conference, Hamilton, Canada (May 2014)
11. *Stanley, Deardon & Feng*. Using School Absenteeism in Disease Surveillance Models: Refining of Surveillance Threshold. Statistical Society of Canada, Toronto, Canada (May 2014)
12. *Augusta & Deardon* – Estimating Parameters in Individual-Level Models of Infectious Disease, Statistical Society of Canada, Toronto, Canada (May 2014)
13. *Augusta & Deardon* – Comparing MCMC and MLE in Spatial Epidemic Models. Southwestern Ontario Graduate Mathematics and Statistics Conference (SOGMSC'14), University of Guelph, Guelph, ON, Canada (May 2014)
14. *Deardon, Malik & Kwong* – International Society for Bayesian Analysis (ISBA) George Box Workshop, Washington DC, USA (May 2014)
15. *Romanescu & Deardon* – OMAFRA Emergency Management Expo, Guelph, Canada (Dec 2013)

16. *Pokharel & Deardon* – “Spatial Back-Projection of Infection Times for Infectious Disease Transmission Models, OMAFRA Emergency Management Expo, Guelph, Canada (Dec 2013)
17. *Augusta & Deardon* – OMAFRA Emergency Management Expo, Guelph, Canada (Dec 2013)
18. *Bifochi, Deardon & Feng* – OMAFRA Emergency Management Expo, Guelph, Canada (Dec 2013)
19. *Zhang & Deardon* - GEOVET Conference, London, UK (Aug 2013)
20. *Kwong, Poljak, Deardon, Dewey* - 13th CONFERENCE of the International Society for Veterinary Epidemiology and Economics (ISVEE XIII), Maastricht, The Netherlands (Aug 2012)
21. *Kwong, Poljak, Deardon, Dewey* - Statistical Society of Canada, Guelph, Canada (June 2012)
22. *Kwong, Poljak, Deardon, Dewey* - Statistical Methods for Infectious Diseases, Open University, Milton Keynes, UK (May 2012)
23. *Kwong, Poljak, Deardon, Dewey* - Canadian Swine Health Board Meeting, Niagara Falls, Canada (Nov 2011)
24. *Dobbs & Deardon* - OMAFRA Emergency Management Expo, Guelph, Canada (Sept 2011)
25. *Bifolchi & Deardon* - OMAFRA Emergency Management Expo, Guelph, Canada (Sept 2011)
26. *Kwong & Deardon* - OMAFRA Emergency Management Expo, Guelph, Canada (Sept 2011)
27. *Dobbs & Deardon* - Statistical Society of Canada, Wolfville, Nova Scotia (June 2011)
28. *Bifolchi & Deardon* - Statistical Society of Canada, Wolfville, Nova Scotia (June 2011)
29. *Malik & Deardon* - Statistical Society of Canada, Wolfville, Nova Scotia (June 2011)
30. *Zhang & Deardon* - Statistical Society of Canada, Wolfville, Nova Scotia (June 2011)
31. *Deeth & Deardon* - INFER Conference on Inference in Epidemic Models, University of Warwick, UK (March 2011)
32. *Deardon & Kwong*- INFER Conference on Inference in Epidemic Models, University of Warwick, UK (March 2011)
33. *Poljak, Kwong & Deardon* - INFER Conference on Inference in Epidemic Models, University of Warwick, UK (March 2011)
34. *Le, Poljak, Deardon & Dewey* - International Pig Veterinary Society Congress, Vancouver, Canada (July 2010)
35. *Vrbik, Deardon, Feng & Braun* - Statistical Society of Canada, Quebec City, Canada (May 2010)
36. *Gardner, Deardon & Darlington* - Statistical Society of Canada, Quebec City, Canada (May 2010)
37. *Martchenko, Deardon & McNicholas* - Statistical Society of Canada, Quebec City, Canada (May 2010)
38. *Zhang & Deardon* - Statistical Society of Canada, Quebec City, Canada (May 2010)
39. *Deeth & Deardon* – GEOMED Conference, Medical University of South Carolina, Charleston, USA (Nov 2009)
40. *Subedi, Feng, Deardon & Schenkel* - Statistical Genetics of Livestock for the Post-Genomic Era Symposium, University of Wisconsin–Madison, USA (May 2009)

Oral presentations by HQP

(Research Group Members shown in italics)

1. *Mahsin & Deardon*. Geo-dependent individual level models of infectious disease. Statistical Society of Canada Annual Meeting, University of Manitoba, Canada. (June 2017)
2. *Almutiry & Deardon*. Statistical Society of Canada Annual Meeting, University of Manitoba, Winnipeg, Canada “Incorporating Contact Network Uncertainty in Individual Level Models of Infectious Disease using Approximate Bayesian Computation” (June 2017)
3. *Mahsin & Deardon*. Geo-dependent individual level models of infectious disease transmission. CAVEPM, University of Calgary, Canada. (June 2017)
4. *Wariyar & Deardon*. Individual Level Modelling of Infectious Disease Data: EpiLM, Statistical Society of Canada 2017 annual conference in Manitoba, (June 2017)
5. *Almutiry & Deardon*. Canadian Society for Epidemiology and Biostatistics Biennial conference, The Banff centre, Banff, Canada “Incorporating Contact Network Uncertainty in Individual Level Models of Infectious Disease using Approximate Bayesian Computation” (May 2017)
6. *Wariyar & Deardon*. Individual Level Modelling of Infectious Disease Data: EpiLM, Canadian Society for Epidemiology and Biostatistics (CSEB) 2017 biennial conference in Banff, (May 2017).
7. *Romanescu & Deardon*. Optimal Surveillance of Epidemics over Power Law Networks, Statistical Society of Canada Annual Meeting 2016, St. Catharines ON, Canada. (May 2016)
8. *Pokharel & Deardon*. Spatially Informed Back-Calculation for Spatio-Temporal Infectious Disease Models. Spatial Accuracy Workshop, East Lansing, USA. (July 2014)
9. *Pokharel & Deardon*. Back-Calculation of Infection Times for Infectious Disease via Spatial Individual Level Models. Joint Statistical Meetings (JSM), Boston, USA. (June 2014)
10. *Malik, Deardon & Kwong*. *Parameterizing Spatial Models of Infectious Disease Spread Using Sampling-Based Likelihood Approximations*. Statistical Society of Canada, Toronto, Canada (May 2014)
11. *Bifulchi, Deardon & Feng*. Improving the fit of individual-level models for incomplete infectious disease data. Southwestern Ontario Graduate Mathematics and Statistics Conference, Guelph, Canada. (May 2014)
12. *Malik, Deardon & Kwong*. Joint Statistical Meetings, Montreal, Canada (August 2013)
13. *Pokharel & Deardon*. 29th European Meeting of Statisticians, Budapest, Hungary (July 2013)
14. *Bifulchi, Deardon & Feng*. Canadian Public Health Association Conference, Ottawa, Canada. (June 2013).
15. *Bifulchi, Deardon & Feng*. Joint Statistical Meetings, Montreal, Canada (August 2013)
16. *Deeth, Deardon & Gillis*. Statistical Society of Canada Annual Meeting, Guelph, Canada (June 2012)
17. *Zhang & Deardon*. Statistical Society of Canada Annual Meeting, Guelph, Canada (June 2012)
18. *Malik & Deardon*. Statistical Society of Canada Annual Meeting, Guelph, Canada (June 2012)
19. *Bifulchi, Deardon & Feng*. Statistical Society of Canada Annual Meeting, Guelph, Canada (June 2012)

20. *Gold, Deardon & Feng*. Statistical Society of Canada Annual Meeting, Guelph, Canada (June 2012)
21. *Deeth & Deardon*. Canadian Society for Epidemiology and Biostatistics, National Student Conference, Montreal, QC (June 2011)
22. *Deeth & Deardon*. Statistical Society of Canada, Wolfville, NS (May 2011)
23. *Gold, Deardon & Feng*. ENAR Spring Meeting , MIAMI, FLORIDA, USA (March 2011)
24. *Deeth & Deardon*. Canadian Association of Veterinary Epidemiology and Preventive Medicine Conference, Guelph, ON (June 2010)

Others

K. EXPERTISE SUMMARY

Areas of expertise (enter all relevant areas of expertise from the CV Supplement List)

Biostatistics; Bayesian & Computational Statistics; Infectious Disease Modelling;
Experimental Design; Statistical Learning.

Types of animals utilized (indicate all types of animals utilized for teaching and/or research purposes)

<input type="checkbox"/>	Beef cattle	<input type="checkbox"/>	Dogs	<input type="checkbox"/>	Horses	<input type="checkbox"/>	Rodents
<input type="checkbox"/>	Birds	<input type="checkbox"/>	Exotic species	<input type="checkbox"/>	Pigs	<input type="checkbox"/>	Sheep
<input type="checkbox"/>	Cats	<input type="checkbox"/>	Fish	<input type="checkbox"/>	Poultry	<input type="checkbox"/>	Wildlife
<input type="checkbox"/>	Dairy cattle	<input type="checkbox"/>	Goats				

Other (please specify): _____

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