

Kevin McGregor — Curriculum Vitae

CONTACT INFORMATION	kevin.mcgregor@mail.mcgill.ca	
RESEARCH INTERESTS	Statistical genetics, analysis of microbiome data, epigenomics, high-dimensional data	
LANGUAGES SPOKEN	English, French (full professional proficiency)	
EDUCATION	McGill University , Montréal, QC	
	Ph.D., Biostatistics, <i>Expected</i> : June 2020	
	<ul style="list-style-type: none">• Thesis Topic: <i>A penalized approach to estimating network changes in the human microbiome</i>• Supervisors: Celia M.T. Greenwood, Ph.D. and Aurélie Labbe, Ph.D.	
	M.Sc., Biostatistics, November 2015	
	<ul style="list-style-type: none">• Topic: <i>Methods for estimating changes in DNA methylation in the presence of cell type heterogeneity</i>• Supervisors: Aurélie Labbe, Ph.D. and Celia M.T. Greenwood, Ph.D.	
	University of Saskatchewan , Saskatoon, SK	
	B.Sc. (Hons), Statistics, June 2013	
	<ul style="list-style-type: none">• <i>Graduated with high honours</i>	
RESEARCH EXPERIENCE	Undergraduate Research Assistant Department of Mathematics and Statistics, University of Saskatchewan Supervisors: Christine Soteros, Ph.D., and Michael Szafron, Ph.D.	May 2011 - August 2013
REFEREED JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. Thiviya Jeyakumar, Nassima Fodil, Lauren Van Der Kraak, Charles Meunier, Romain Cayrol, Kevin McGregor, David Langlais, Celia Greenwood, Nicole Beauchemin, Philippe Gros; P145 Inactivation of IRF1 causes susceptibility to colitis-associated colorectal cancer. <i>Inflammatory Bowel Diseases</i>, Volume 25, Issue Supplement_1, 7 February 2019, Pages S662. Kathryn LaRusso, Geraldine Schaack, Tiffany Fung, Kevin McGregor, Justin Long, Marie-Pier Dumas, Zahia Attari, Yasmine Yousef, Hidy Girgis, Rajam Raghunathan, Ana Sant'Anna. Should You Pick the PICC? Prolonged Use of Peripherally Inserted Central Venous Catheters in Children with Intestinal Failure. <i>Revised and resubmitted to Journal of Pediatric Surgery</i>3. Howard Steiger, Linda Booij, Esther Kahan, Kevin McGregor, Lea Thaler, Aurelie Labbe, Ridha Joobor, Mimi Israël, Moshe Szyf, Luis B. Agellon, Emilie Fletcher, Lise Gauvin, Annie St-Hilaire, Erika Rossi. A longitudinal, epigenomewide study of DNA methylation in Anorexia Nervosa: Results in actively ill, partially weight restored, long-term remitted, and non-eating-disordered women. <i>Accepted in Journal of Psychiatry and Neuroscience</i>.4. Arabzadeh, Azadeh, Kevin McGregor, Valérie Breton, Lauren Van Der Kraak, Uri David Akavia, Celia MT Greenwood, and Nicole Beauchemin. "EPHA2 signaling is impacted by carcinoembryonic antigen cell adhesion molecule 1-L expression in colorectal cancer liver metastasis in a cell context-dependent manner." <i>Oncotarget</i> 8, no. 61 (2017): 104330.	

	<ol style="list-style-type: none"> 5. Kevin McGregor, Sasha Bernatsky, Ines Colmegna, Marie Hudson, Tomi Pastinen, Aurélie Labbe, Celia MT Greenwood (2016). An evaluation of methods correcting for cell type heterogeneity in DNA methylation studies. <i>Genome Biology</i>, 2016 17(84). 6. Azadeh Arabzadeh, Jeremy Dupaul-Chicoine, Valérie Breton, Sina Haftchenary, Sara Yumeen, Claire Turbide, Maya Saleh, Kevin McGregor, Celia M T Greenwood, Uri David Akavia, Richard S Blumberg, Patrick T Gunning, Nicole Beauchemin (2015). Carcinoembryonic Antigen Cell Adhesion Molecule 1 long isoform modulates malignancy of poorly differentiated colon cancer cells. <i>Gut</i>, gutjnl-2014. 7. Cheston, M. A., McGregor, K., Soteris, C. E., Szafron, M. L. (2014). New evidence on the asymptotics of knotted lattice polygons via local strand-passage models. <i>Journal of Statistical Mechanics: Theory and Experiment</i>, 2014(2), P02014.
PUBLICATIONS IN REVISION OR SUBMITTED	<ol style="list-style-type: none"> 1. Kevin McGregor, Aurélie Labbe, Celia MT Greenwood. Differential co-occurrence network estimation in microbiome studies. <i>Submitted to Bioinformatics February 2019</i> 2. Lea Thaler, Sarah Brassard, Esther Kahan, Kevin McGregor, Aurelie Labbe, Mimi Israel, and Howard Steiger. Methylation of the OXTR gene in women with Anorexia Nervosa: Relationship to Social Behavior. <i>In revision for Journal of Psychiatric Research</i>
CORRESPONDENCE	<ol style="list-style-type: none"> 1. Anderson, Chloé, Kevin McGregor, and James A. Hanley. “Cranberry Capsules for Bacteriuria Plus Pyuria in Nursing Home Residents.” <i>Jama</i> 317.10 (2017): 1077-1078. 2. McGregor, Kevin, Aurélie Labbe, and Celia MT Greenwood. “Response to: Correcting for cell-type effects in DNA methylation studies: reference-based method outperforms latent variable approaches in empirical studies.” <i>Genome biology</i> 18.1 (2017): 25.
TEACHING EXPERIENCE	<p>Instructor</p> <ul style="list-style-type: none"> • <i>EPID 521 Regression Analysis for Health Sciences</i> Jan-Apr 2018 Department of Epidemiology, Biostatistics, and Occupational Health McGill University • <i>Seminar Series in Biostatistics (5 lectures)</i> Sept-Oct 2017 Lady Davis Institute for Medical Research Montréal, Québec <p>Teaching Assistant</p> <ul style="list-style-type: none"> • <i>EDPE 676 — Intermediate Statistics</i> Fall 2015, 2016 Department of Educational and Counselling Psychology, McGill University <p>Grader</p> <ul style="list-style-type: none"> • <i>STAT 100 — Elementary Statistics for Applications</i> Winter 2013 University of Regina (Saskatoon Campus) <p>Help Desk Advisor</p> <ul style="list-style-type: none"> • Computer Science Help Desk May-June 2010 Department of Computer Science, University of Saskatchewan
REVIEWER WORK	<ul style="list-style-type: none"> • Article co-reviewed for <i>Genome Biology</i> 2017 • Article reviewed for <i>International Journal of Epidemiology</i> 2017

OTHER ACADEMIC ACTIVITIES	• Local Arrangement Chair	Sept 2017 - June 2018
	Canadian Statistics Student Conference Statistical Society of Canada	
	• Biostatistics Academic Representative	2017-18
	Department of Epidemiology, Biostatistics, and Occupational Health McGill University	
	• Biostatistics Academic Representative	2016-17
	Department of Epidemiology, Biostatistics, and Occupational Health McGill University	
	• Co-organized successful CANSSI Distinguished Visitor application	March 2017
	Department of Epidemiology, Biostatistics, and Occupational Health McGill University	
	Speaker: Hilary Parker Ph.D.	
OTHER PROJECTS	• Statistical analysis and consulting (various projects)	2016-present
	• Course translation (French to English)	Fall 2018
	HEC Montréal - Analyse et inférence statistique - 6-619-15	
AWARDS	Awards — McGill University	
	• FRQS Doctoral award (\$21,000/year)	2018-2020
	• Faculty of Medicine Internal Studentship (\$12,000)	2017
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	• Graduate excellence award Ph.D. (\$10,000)	2015
	• Graduate excellence award M.Sc. (\$4,000)	2013
	Awards — University of Saskatchewan	
	• Most Outstanding Graduate in Statistics	2013
	• Dean's List	2013
	• Honours Scholarship (\$1500)	2013
	• Saskatchewan Curling Association Athlete Assistance Award (\$1100)	2009
	• Edgar Alexander Garton Scholarship (\$1000)	2009
	• Entrance Scholarship (\$3000)	2008
	Travel Awards	
	• Queen Elizabeth Scholar: "Quantitative Biology and Medical Genetics for the World" (\$6,000)	2019
	• 2017 Microbiome Summer School: Big Data Analytics for Omcis Science (All conference expenses covered)	2017
	• Workshop on Statistical Issues in Biomarkers and Drug Co-Development (\$500)	2014
	Other Awards	
	• Statistical Society of Canada Student Conference	2013
	Award for best undergraduate poster (co-authored with Marla Cheston)	
PRESENTATIONS	Contributed talks	
	• Statistical Society of Canada Annual Meeting, Montréal QC	Jun 2018
	• (Bio)Statistics Student Research and Career Day, McGill University	Sept 2017
	• Statistical Society of Canada Annual Meeting, Winnipeg MB	Jun 2017
	• 4th Annual Human and Statistical Genetics Meeting, Vancouver, BC	Apr 2015
	Posters	
	• American Society of Human Genetics Annual Meeting, San Diego, CA	Oct 2018

- Canadian Human and Statistical Genetics Meeting Jun 2018
Harrison Hot Springs, BC
- Causal Challenge, Workshop on Statistical Causal Inference Jul 2016
and Applications to Genetics, Montréal, QC
- EBOH 50th anniversary conference, Montréal, QC Apr 2015
- 4th Annual Human and Statistical Genetics Meeting, Vancouver, BC Apr 2015
- Workshop on Statistical Issues in Biomarker and Drug Co-development Nov 2014
Fields Institute, Toronto, ON
- Statistical Society of Canada Annual Meeting May 2014
Case Study Competition, Toronto, ON
- Statistical Society of Canada Student Conference May 2013
Student poster competition, Edmonton, AB