

## Mohammad Ehsanul Karim (Ehsan), Ph.D.

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CONTACT      Jewish General Hospital  
INFORMA-      Lady Davis Research Institute      *Voice:* (514) 806-4397  
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                H3T 1E2 Canada      *WWW:* ehsankarim.com

Last updated: June 28, 2016

CITIZENSHIP Canadian.

RESEARCH      Causal Inference, Biostatistics, Epidemiology, Survival Analysis, Longitudinal Data  
INTERESTS      Analysis, Statistical Computing, Machine Learning, Measurement Error Modelling,  
                Bayesian Analysis.

CURRENT      Postdoctoral Researcher  
POSITIONS

- The Canadian Network for Observational Drug Effect Studies (CNODES).  
Site: Lady Davis Institute, Jewish General Hospital.      February 2015 - Current
- Department of Epidemiology, Biostatistics and Occupational Health,  
McGill University      August 2015 - Current
  - Supervisor: Dr. Robert Platt

EDUCATION      **University of British Columbia** (UBC), Vancouver, BC, Canada

Ph.D, Department of Statistics      2015

- Supervisor: Dr. Paul Gustafson, Dr. John Petkau with Dr. Helen Tremlett in the supervisory committee (Ph.D Thesis: “Causal Inference Approaches for Dealing with Time-dependent Confounding in Longitudinal Studies, with Applications to Multiple Sclerosis Research”)

M.Sc., Department of Statistics,      2009

- Supervisor: Dr. Paul Gustafson (Thesis: “Evaluating the Performance of Hypothesis Testing in Case-Control Studies with Exposure Misclassification, using Frequentist and Bayesian Techniques”)

**University Dhaka**, Dhaka, Bangladesh

M.S., Institute of Statistical Research and Training, (Thesis: “Comparative Study on the different approaches of Frailty Model: A simulation Study”)      2007

B.Sc., Institute of Statistical Research and Training, (Research project: “Modeling the Daily Rainfall Occurrence: A stochastic approach”)      2006

## GRANTS

### Multiple Sclerosis Society of Canada (MSSC)

- Research (Ph.D.) Studentship for the project titled “Causal Inference with Observational Multiple Sclerosis Data”. (National: \$ 60,000) 2012-2015

### Canadian Government (Tri-Agency Funding Sources)

- Canadian Institutes of Health Research (CIHR): Co-applicant for the grant application (high merit-ranked within the competition): “The BeAMS-50plus Study Benefits and Adverse Effects of Beta-interferon for Multiple Sclerosis patients aged 50 plus”. (\$ 99,785) 2012-2013
- Natural Sciences and Engineering Research Council of Canada (NSERC): Identified as a meritorious candidate for Visiting Fellowships in Canadian Government Laboratories program(VF), Postdoctoral Programs: National level (\$50,000 per year; declined) 2014

## HONORS

### AND AWARDS AJE’s Articles of the Year

- American Journal of Epidemiology (AJE) and the Society for Epidemiologic Research (SER) selected my publication as one of the Journal’s 2014 top 10 Articles of the Year

### The Statistical Society of Canada

- Student research presentations award (\$ 500): National level 2015
- Statistics on Reels participation award (SSC Student Conference) (\$ 100): National level 2015
- Recipient of Travel award from the SSC Biostatistics Section, 2016 (\$ 250)

### University of British Columbia (Selected)

- Statistics Graduate Teaching Assistant Award, UBC (\$ 500) 2011-12
- Graduate TA Teaching Award for teaching (Nominated) 2008/09, 2011/12.
- UBC Faculty of Science Achievement Award (due to teaching and initiatives within the Department, \$ 1,000) 2008-09
- Faculty of Science Graduate Award (2,000) 2012-13
- Ph.D. Tuition Fee Award (\$ 21,744) 2009-12

### The Canadian Statistical Sciences Institute (CANSSI)

- Recipients for the travel award for 2016 CANSSI workshop (\$ 1,000)

### Pacific Institute for the Mathematical Sciences (PIMS)

- PIMS Matching Fund for Student Travel (\$ 1,000) 2013

### Western Pacific endMS Regional Research and Training Centre

- Trainee Travel Award (\$ 3,000) 2011-12
- endMS Conference Travel Award (invited) 2013
- endMS Summer School travel and accommodation (\$ 1,750) 2012, 2014

### Bangladesh Government

- Bangladesh Government Talent-pool Scholarship: National level 2003-2004

### University of Dhaka

- University Pre-Honors Scholarship, University of Dhaka 2000-2001

### Institute of Statistical Research and Training (ISRT)

- ISRT Scholarship, University of Dhaka 2001-2004

CONSULTING Division of Neurology, Medicine, UBC, Vancouver, Canada

EXPERIENCE

- Research Assistant and Statistical consultant Sept 2009 and Dec 2014

Statistics Short Term Consulting Service (STCS, Statistics, UBC)

- Statistical consultant Sept 2008 - Jan 2015

PUBLICATIONS

*Invited Editorial*

- Karim, M. E. (2013) “Can joint replacement reduce cardiovascular risk?” (The role of propensity score matching and landmark analysis in interpreting observational studies of treatments). *BMJ*; 347:f6651

*Refereed Journal Articles*

- Karim, M. E.; et al. (2016) “Comparison of Statistical Approaches Dealing with Immortal Time Bias in Drug Effectiveness Studies” (accepted in *American Journal of Epidemiology*)
- Karim, M. E.; Gustafson, P. (2016) “Hypothesis Testing for an Exposure-Disease Association in Case-Control Studies under Non-differential Exposure Misclassification in the presence of Validation Data: Comparison of Bayesian and Frequentist Adjustments”, *Statistics in Biosciences*. DOI: 10.1007/s12561-015-9141-9
- Karim, M. E.; et al. (2014) “Marginal structural Cox models for estimating the effect of beta-interferon exposure in delaying disease progression in a multiple sclerosis cohort”, *American Journal of Epidemiology*, 180 (2): 160-171. DOI: 10.1093/aje/kwu125.
- Zhang, T.; Shirani, A.; Zhao, Y.; Karim, M. E.; et al. (2015) “Beta-interferon exposure and onset of secondary progressive multiple sclerosis”, *European Journal of Neurology*. DOI: 10.1111/ene.12698
- Shirani A., Zhao, Y., Petkau J., Gustafson P., Karim, M. E.; et al. (2015) “Multiple sclerosis in older adults: the clinical profile and impact of interferon beta treatment”, *BioMed Research International*. DOI: 10.1155/2015/451912
- Gibbs, E.; Karim, M. E.; et al. “Antibody dissociation rates are predictive of neutralizing antibody (NAb) course: A comparison of interferon beta-1b-treated patients with transient versus sustained NAb”, *Clinical Immunology*; DOI: j.clim.2014.12.005
- Shirani, A.; Zhao, Y.; Karim, M. E.; et al. (2014) “Investigation of heterogeneity in the association between interferon beta and disability progression in multiple sclerosis: an observational study”. *European Journal of Neurology*. DOI: 10.1111/ene.
- Shirani, A.; Zhao, Y.; Karim, M. E.; et al. (2012) “Association between use of interferon beta and progression of disability in patients with relapsing-remitting multiple sclerosis.” *Journal of the American Medical Association (JAMA)*. 308(3):247-256.
- Rahman, P.K.; Matsui, N.; Ikemoto, Y.; Karim, M. E. (2007). “Intergenerational Mobility in Poverty State of Chronically Poor in Rural Bangladesh: A Markov Chain Model Approach”. *Asian Economic Review*, Yamaguchi University, Vol-66, No.1, August, 2007

### *Letter to the Editor*

- Shirani, A.; Zhao, Y.; Karim, M. E.; et al. (2013) “Interferon Beta and Long-term Disability in Multiple Sclerosis”. *JAMA Neurology*. 70(5):651-653.

### *Book Chapter*

- Anema A., Karim, M. E., Milloy M.J., Wood E., McCandless L. “Directed Acyclic Graphs to Identify Confounders: A Case Study Exploring the Impact of Hunger on Virological Suppression Among HIV+ Illicit Drug Users Receiving HIV Treatment”. In: *Health of HIV Infected People: Food, Nutrition and Lifestyle with Antiretroviral Drugs [Volume 1]*. Watson RS (Ed.) 2015. Elsevier Publishing Inc.

### *Technical Report*

- Yanling, C.; Chen, J.; Golchi, S.; Guan, M.; Karim, M. E.; Liu, Y.; Tomal, J.; Xiong, C.; Zhai, Y.; Lum, Conroy; Welch, W.J.; Zidek, J.V. (2016) “An empirical experiment to assess the relationship between the tensile and bending strengths of lumber”, Technical report 276, Department of Statistics, University of British Columbia.

### *Videobook*

- Karim, M. E. (2013) “R Graph Essentials”, Packt Publishing, ISBN: 1782165460, ISBN 13: 9781782165460

### *Submitted works in Peer-reviewed Journals*

- Karim, M. E.; Platt, R., and BeAMS study group. “Estimating inverse probability weights using super learner when weight-model specification is unknown in a marginal structural Cox model context”
- Gustafson, P.; Karim, M. E. “When Exposure is subject to Nondifferential Misclassification, are Validation Data helpful in Testing for an Exposure-Disease Association?”
- Karim, M. E.; Petkau, J.; Gustafson, P.; Platt, R.; Tremlett, H. and BeAMS study group. “Comparison of Statistical Approaches Dealing with Time-dependent Confounding in Drug Effectiveness Studies”
- Karim, M. E.; Petkau, J.; Gustafson, P.; Tremlett, H. and BeAMS study group. “The Performance of Statistical Learning Approaches to Construct Inverse Probability Weights in Marginal Structural Cox Models: A Simulation-based Comparison”
- Bacak, V. and Karim, M. E. “The Effect of Serious Offending on Physical and Mental Health: A Counterfactual Approach”

### *Works in Progress*

- Karim, M. E.; Pang, M.; Platt, R. “Comparing approaches for Confounding Adjustment in Secondary Database Analyses: High-Dimensional Propensity Score versus two machine learning algorithms: Random Forest and Elastic Net”

*Invited Conference Presentations*

- Karim, M. E.; Pang, M.; Platt, R. “Comparing approaches for Confounding Adjustment in Secondary Database Analyses: High-Dimensional Propensity Score versus two machine learning algorithms: Random Forest and Elastic Net”, invited session on ‘Statistical Methods to Improve Drug and Vaccine Safety Surveillance Using Big Healthcare Data’, XXVIIIth International Biometric Conference Victoria Convention Centre, Victoria, Canada 10 - 15 July, 2016 (scheduled)
- Karim, M. E.; Gustafson, P. “Adjusting for Exposure Misclassification in Bayesian Hypothesis Testing in Case-Control Studies”, The First International Conference on Theory and Applications of Statistics; Dhaka University, Bangladesh; December 26–28, 2010. (International)
- Rahman, P.K.; Karim, M. E. (2007). “Obstacles in Livelihood of Chronically Poor in Rural Bangladesh”. Key note paper, 6–7 July 2007 Presented in the 10th National Statistical Conference, Bangladesh Statistical Association (BSA), Dhaka, Bangladesh. (National)

*Contributed Conference Presentation:*

- Karim, M. E.; Platt, R., Tremlett, H.; The BeAMS study group “Estimating Inverse Probability Weights using Super Learner when Weight-Model Specification is Unknown in a Marginal Structural Cox Model Context: An Application to Multiple Sclerosis”
  - Session on “Biostatistics Applications”, Annual Meeting of the Statistical Society of Canada, May 29 - June 1, 2016 Brock University, St. Catharines
  - XXVIIIth International Biometric Conference Victoria Convention Centre, Victoria, Canada 10 - 15 July, 2016 (Scheduled)
- Karim, M. E.; Pang, M.; Platt, R. “Comparing approaches for Confounding Adjustment in Secondary Database Analyses: High-Dimensional Propensity Score versus two machine learning algorithms: Random Forest and Elastic Net”, International Society for Clinical Biostatistics (ISCB) Annual Conference, 21-25 Aug 2016 Birmingham, UK (scheduled)
- Karim, M. E.; Gustafson, P.; Petkau, J.; Tremlett, H.; The BeAMS study group “Comparison of Statistical Approaches Dealing with Immortal Time Bias in Drug Effectiveness Studies”, session on “Biostatistics in Action 1”, Annual Meeting of the Statistical Society of Canada, Dalhousie University, Halifax, Nova Scotia, June 14-17, 2015.
- Karim, M. E.; Petkau, J.; Gustafson, P.; Tremlett, H.; The BeAMS study group; “The Performance of Statistical Learning Approaches to Construct Inverse Probability Weights in Marginal Structural Cox Models: A Simulation-based Comparison”, The 3rd annual SSC Student Conference, Dalhousie University, Halifax, Nova Scotia, June 13, 2015.
- Karim, M. E.; Gustafson, P.; Petkau, J.; Shirani, A.; Zhao, Y.; Kingwell, E.; van der Kop, M.; Oger, J.; Tremlett, H. “Estimating the effect of beta-interferon exposure in delaying disease progression in relapsing-remitting multiple sclerosis patients using causal inference tools”, Session on ‘Novel Methods for Analysis of Survival and Longitudinal Data’, Section on Statistics in Epidemiology, 2014 Joint Statistical Meetings, August 2-7, 2014.

- Karim, M. E.; Gustafson, P.; Petkau, J.; Shirani, A.; Zhao, Y.; Kingwell, E.; van der Kop, M.; Oger, J.; Tremlett, H. “Logrank tests with the inverse probability of treatment weighting to assess the impact of beta-interferon treatments in delaying disability progression in multiple sclerosis”, Session on ‘Causal Methods and Applications in Variable Selection, Genetics, Mediation and Survival Analysis’, Section on Statistics in Epidemiology, 2013 Joint Statistical Meetings, , August 3-8, 2013
- Karim, M. E.; Gustafson, P.; Petkau, J.; Shirani, A.; Zhao, Y.; Kingwell, E.; van der Kop, M.; Oger, J.; Tremlett, H. “A simulation study of methods used to reduce variability in the inverse probability of treatment weights for marginal structural Cox models”, Annual Meeting of the Statistical Society of Canada, University of Alberta, Edmonton, Alberta, May 26-29, 2013.
- Karim, M. E.; Gustafson, P.; Petkau, J.; Shirani, A.; Zhao, Y.; Kingwell, E.; Evans, C.; van der Kop, M.; Oger, J.; Tremlett, H. “Comparing the direct and approximate approaches to implement marginal structural Cox models: An Application to Multiple Sclerosis”, Inaugural SSC Student Conference, University of Alberta, Edmonton, Alberta, May 25, 2013.
- Karim, M. E. “Reverse-engineering randomization!”, Joint UBC/SFU, Department of Statistics, University of British Columbia, March 2013.
- Karim, M. E.; Gustafson, P.; Petkau, J.; Zhao, Y.; Shirani, A.; Evans, C.; Kingwell, E.; van der Kop, M.; Tremlett, H. “A simulation study of the performance of the prescription time-distribution matching method to address immortal time bias”, Session on ‘Causal Inference in Epidemiology’, Section on Statistics in Epidemiology, 2012 Joint Statistical Meetings, San Diego, July 28-August 2, 2012.
- Karim, M. E.; Gustafson, P.; Petkau, J. “Generating survival data for fitting marginal structural Cox models using Stata”, Stata Conference, San Diego, July 26-27, 2012.
- Karim, M. E. “A Path to Causal Inference”, Joint UBC/SFU, Department of Statistics and Actuarial Science, Simon Fraser University, September 2011.
- Karim, M. E.; Gustafson, P.; Petkau, J.; Shirani, A.; van der Kop, M.; Kingwell, E.; Zhao, Y.; Evans, C.; Tremlett, H. “Marginal Structural Models for Investigating Long-Term Effectiveness of a Time-Dependent Treatment: An Application to Multiple Sclerosis”, Session on ‘Innovative Approaches for Analyzing Repeated Measures Data’, Section on Statistics in Epidemiology, 2011 Joint Statistical Meetings, Miami, Florida; July 31st, 2011

### *Posters*

- Karim, M. E.; Gustafson, P.; Petkau, J.; Shirani, A.; Zhao, Y.; Kingwell, E.; van der Kop, M.; Oger, J.; UBC MS Clinic Neurologists.; Tremlett, Helen “Causal inference tools for estimating the effect of beta-interferon exposure in delaying disease progression in a relapsing-remitting multiple sclerosis cohort data obtained from observational sources” 2013 endMS Conference in December 2013, St. Sauveur, Quebec
- Shirani, A.; Zhao, Y.; Karim, M. E.; Petkau, J.; Gustafson, P.; Evans, C.; Kingwell, E.; van der Kop, M.; Oger, J.; UBC MS Clinic Neurologists.; Tremlett, H. (2013) “Investigation of heterogeneity in the association between interferon beta and disability progression in multiple sclerosis: an observational study from British Columbia, Canada”, Tools for detecting therapeutic response,

ECTRIMS/RIMS meeting, Copenhagen, Denmark 2 - 5 October 2013.

- Shirani, A.; Zhao, Y.; Karim, M. E.; Evans, C.; Kingwell, E.; van der Kop, M.; Oger, J.; Gustafson, P.; Petkau, J.; Tremlett, H (2012). "Association Between Use of Interferon Beta and Progression of Disability in Patients with Relapsing-Remitting Multiple Sclerosis" 2012 Symposium of the European Charcot Foundation. 29 Nov - 1 Dec, Marbella, Spain.
- Evans, C.; Zhao, Y.; Shirani, A.; Kingwell, E.; van der Kop, M.; Karim, M. E.; Gustafson, P.; Petkau, J.; Tremlett, H. "The BeAMS Study: Long-term benefits and adverse effects of beta-interferons for multiple sclerosis: Impact on hospital services utilization". Proceedings of endMS Conference 2010; p. 38. The endMS Conference 2010, Whistler, BC, Canada, 6-9 December 2010.

#### *Invited Research Talks in Seminars*

- Karim, M. E.; Gustafson, P.; Petkau, J.; Tremlett, H.; The BeAMS study group "Comparison of Statistical Approaches Dealing with Immortal Time Bias in Drug Effectiveness Studies":
  - January 19, 2016, Biostatistics seminar, Department of Epidemiology, Biostatistics and Occupational Health, McGill University.
  - February 8, 2016, Causal inference journal club, Faculté de pharmacie, Université de Montréal.
  - March 8, 2016, Epidemiology seminar, Centre for Clinical Epidemiology Jewish General Hospital, Lady Davis Research Institute.
  - June 30, 2016, Department seminar, Landmark Center, Harvard Medical School & Harvard Pilgrim Health Care Institute, Boston, MA.
  - July 12, 2016, Statistics seminar, St. Paul's Hospital, Vancouver, BC.
- Rahman, P.K. and Matsui, N. and Ikemoto, Y. and Karim, M. E. (2007). "Livelihoods of Chronically Poor in Rural Bangladesh". International Workshop on "Chronic Poor in Bangladesh". 17-19 March 2007, The Institute of Oriental Culture, University of Tokyo, Japan.
- Karim, M. E. "Application of Propensity Scores in Epidemiology", December 2010, Institute of Statistical Research and Training Seminar, University of Dhaka, Bangladesh.

#### *Research Talks in Seminars (Statistical Audience)*

- Karim, M. E. "Causal Inference Approaches for Dealing with Time-dependent Confounding in Longitudinal Studies, with Applications to Multiple Sclerosis Research", Biostatistical Research Group Seminar Series, Department of Statistics, University of British Columbia, December, 2014.
- Karim, M. E. "Evaluating the Performance of Hypothesis Testing in Case-Control Studies with Exposure Misclassification, using Frequentist and Bayesian Techniques", Seminar Series, Department of Statistics, University of British Columbia, June, 2009.
- Karim, M. E. "Comparisons of Different Frailty Models: A Simulation Study", August, 2007, Thesis defense, Institute of Statistical Research and Training, University of Dhaka, Bangladesh.
- Karim, M. E. "Modeling the Daily Rainfall Occurrence: A stochastic approach", 2005, Project presentation, Institute of Statistical Research and Training, Uni-

versity of Dhaka, Bangladesh.

*Outreach; Research Talks in Seminars for Non-statistical Researchers*

- Karim, M. E. “Propensity score matching in presence of immortal time bias” November 2013, Brain Research Centre conference centre, Western Pacific endMS Research and Training Centre, UBC Hospital, Vancouver.
- Karim, M. E. “How to estimate beta-interferon treatment effectiveness in MS using some fancy modelling”, September 2011, Pharmacoepidemiology in MS Research Group (PiMS), Brain Research Centre conference centre, UBC Hospital, Vancouver.
- Shirani, A and Zhao, Y and Karim, M. E and Evans, C and Kingwell, E and van der Kop, M and Oger, J and Gustafson, P and Petkau, J and Tremlett, H. “Association between use of interferon beta and progression of disability in patients with relapsing-remitting multiple sclerosis”. September 2012, Brain Research Centre conference centre, Western Pacific endMS Research and Training Centre, UBC Hospital, Vancouver.

*Research Talks in Student Seminars*

- Karim, M. E. “Causal Inference from Observational Data using Propensity Scores”, Graduate Students Seminar Series, Department of Statistics, University of British Columbia, March, 2011.
- Karim, M. E. “Estimating the causal effect of a treatment while time-dependent confounding is present: An illustration of the sequential Cox approach”, Graduate Students Seminar Series, Department of Statistics, University of British Columbia, September, 2011.

TEACHING  
EXPERIENCE

*Course Lecturer in Graduate Course* Jan 2016 to April 2016

- EPIB 591: Regression Analysis for Health Sciences, McGill (7 students)

*Sessional Instructor in Undergraduate Course* Sep 2008 to Dec 2008

- STAT 200: Elementary Statistics for Applications, UBC (138 students)

*Guest Lecturing in Graduate Courses*

- EPIB 610: Advanced Methods: Causal Inference, McGill Feb, March 2016
- SPPH 501: Analysis of Longitudinal Data, UBC Nov 2011

*Online course Instructor* 2013

- SAS introductory course designed for [shikhhok.com](http://shikhhok.com) (This site is recipient of 2013 Google RISE Award from Asia Pacific region; 325 students)

*Teaching Assistant (TA), UBC* Sept 2007 - Dec 2013

- STAT 302: Introduction to Probability
- STAT 241: Introductory Probability and Statistics
- STAT 200: Elementary Statistics for Applications
- STAT 203: Statistical Methods



- STAT 251: Elementary Statistics

*Instructor in Workshops*

- ‘Introductory SAS Statistical Software Workshop’. endMS Western Pacific Research and Training. 2013
- ‘Statistical capabilities of Julia - An ‘almost nontechnical’ overview for statisticians’. Department of Statistics, UBC. 2013
- ‘Getting started with Stata’. Department of Statistics, UBC. 2013
- ‘How to pet BUGS’. Department of Statistics, UBC. 2012
- ‘Introductory R Statistical Software Workshop’. endMS Western Pacific Research and Training. 2012
- ‘Workshop on Stata’. UBC PiMS Research Group. 2012
- ‘Workshop on R’. Department of Statistics, UBC. 2008
- ‘Workshop on Stata’. Institute of Statistical Research and Training (ISRT), University of Dhaka, Bangladesh. 2006-07

SOFTWARE

1. `msm`

- Stata code (in `mata` language) and SAS code (in IML) for generating survival data suitable for fitting longitudinal Marginal Structural Cox Models. Available upon request.

2. WebApps

- Web-Apps (written in `shiny`) related to teaching Causal Inference ([link here: www.ehsankarim.com/software/webapps](http://www.ehsankarim.com/software/webapps)).

3. `iptw`

- R package for implementing standardization and inverse probability weights (point-treatment and longitudinal). Available upon request.

COMPUTING SKILLS

- Statistical packages: R/S-plus, Stata, SAS (macro, IML), MATLAB
- Programming (for computation speed-up): FORTRAN, Julia, Python, C/C++
- Social science packages: SPSS, Systat, Statistica, Minitab
- Bayesian packages: OpenBUGS / WinBUGS / JAGS
- Computational Contributions to Books (acknowledged)
  - Hernan, M. and Robins, J. (2016) “Causal Inference”. Chapman Hall CRC.
  - Rahman, M., Matsui, N, and Ikemoto, Y. (2008) “The Chronically Poor in Rural Bangladesh: Livelihood Constraints and Capabilities”, Vol. 66. Routledge.

PROFESSIONAL MEMBER-SHIP

- Member of REDDI - the Reasoned Evidence from Difficult Data Initiative, UBC

- Life Member of Bangladesh Statistical Association
- Statistical Society of Canada 2009-2016
- American Statistical Association 2010-2016
- Multiple Sclerosis Society of Canada 2012-2014
- UBC Pharmacoepidemiology in Multiple Sclerosis (PiMS) Research Group 2009-14
- Statistical Consultant, “Statistics Short Term Consulting Service”, UBC 2008-2014

## SERVICE

### 1. Academic Services

#### *Refereeing Articles for Peer-reviewed Journals*

- American Journal of Epidemiology (AJE)
- Pharmacoepidemiology and Drug Safety (PDS)
- British Medical Journal (BMJ)
- Biometrical Journal (BJ)
- Statistics in Medicine (SIM)
- R Journal (RJ)
- International Journal of Statistics and Probability (IJSP)

#### *Conference Session Chairing*

- Session: “Biostatistics: Causal Inference and Measurement Error” in the 2015 Annual meeting of Statistical Society of Canada
- Session: “Biostatistics: Methods and Applications 1” in the 2016 Annual meeting of Statistical Society of Canada

#### *Judging Poster Competition*

- Served as a judge for the case studies poster competition at the SSC Meeting 2016

#### *Organizing Seminars/Conferences*

- Lead organizer for van Eeden Speaker seminar, UBC 2012-2013
- Organizer for Joint UBC/ SFU statistics seminar. 2012
- Organizer of the Graduate Student Seminar series in Statistics, UBC, 2008-09, 2010-11

#### *Organizing Workshops*

- Organizer of Computing Sessions on “Guidelines for coding, verifying correctness and profiling in R” in UBC. 2009.
- Organizer of the workshop series (Unix, programming practices, Smoothing, WinBUGS, R with C++). 2010.

#### *Volunteering for Conference / Workshop*

- Joint Statistical Meetings (JSM) (Continuing Education) in San Diego, CA 2012
- Statistical Society of Canada (SSC) Annual Meeting in Vancouver, BC 2009
- Joint UBC/ SFU statistics seminar 2008
- Hadley Wickham’s workshop on `ggplot2` in Statistics, UBC. 2013

### 2. Community Services

#### *Elected Positions*

- Associate Grad Rep (Social Catalyst), Statistics, UBC. 2008-2009.
  - Associate VP (Liaison), Executive, Bangladesh Student Association (BSA),  
Alma Mater Society (AMS) club, UBC. 2008-2009.
  - Councilor in Graduate Student Society (GSS), UBC. 2008.
- Mentoring new TAs via TA training program*
- Department of Statistics, UBC. 2011-13
- Chairing Committees*
- Chairman of Web task force for setting guidelines for various web-sites and  
social networking sites for Bangladesh Students' Association, UBC. 2011
- Committees Membership*
- Faculty-wide IT review from the Department of Statistics, UBC, 2013
  - Bengali new year cultural calibration, hosted by Thunderbird Residence As-  
sociation, UBC (Lead organizer of 2012, Volunteer of 2013)
- Web-mastering*
- Web mastering various pages of stat.ubc.ca related to graduate computing  
and seminar.

## REFEREES

- Professor Paul Gustafson, PhD  
M.Sc. and Ph.D. supervisor  
Web-site: <http://www.stat.ubc.ca/People/Home/index.php?person=gustaf>  
Professor, Department of Statistics  
Co-Director, Master of Data Science Program  
The University of British Columbia  
3182-2207 Main Mall, Vancouver, B.C., Canada V6T 1Z4  
Telephone: (604) 822-1300  
E-mail: [gustaf@stat.ubc.ca](mailto:gustaf@stat.ubc.ca)
- Professor John Petkau, PhD  
Ph.D. supervisor  
Web-site: <http://www.stat.ubc.ca/People/Home/index.php?person=john>  
Professor, Department of Statistics  
The University of British Columbia  
3148-2207 Main Mall, Vancouver, B.C., Canada V6T 1Z4  
Telephone: (604) 822-4673  
E-mail: [john@stat.ubc.ca](mailto:john@stat.ubc.ca)
- Professor Robert Platt, PhD  
Post-doctoral supervisor  
Web-site: <http://www.medicine.mcgill.ca/epidemiology/platt/>  
Professor, Departments of Pediatrics  
Professor, Departments of Epidemiology, Biostatistics and Occupational Health  
Albert Boehringer I Chair in Pharmacoepidemiology  
McGill University  
Purvis Hall, 1020 Pine Ave W, Montreal, QC, Canada H3A 1A2  
Telephone: (514) 340-8222 ext 8683  
E-mail: [robert.platt@mcgill.ca](mailto:robert.platt@mcgill.ca)