

CURRICULUM VITAE

Susan Marlene Shortreed

Updated: October 12, 2015

1. BIOGRAPHICAL INFORMATION:

Susan M Shortreed, Ph.D.
Associate Investigator
Biostatistics Unit, Group Health Research Institute
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Seattle, WA 98101-1448
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Affiliate Associate Professor
Department of Biostatistics, University of Washington

2. EDUCATION:

University of Washington, Seattle, WA, USA

Ph.D., Department of Statistics

Graduation: December 2006

- Dissertation Topic: Learning in Spectral Clustering
- Advisor: Marina Meilă

M.S., Department of Statistics

Graduation: December 2004

University of Michigan, Ann Arbor, MI, USA

B.S., Department of Statistics

Graduation: June 2001

- Minor: Mathematics
- High honors

3. LICENSURE:

Not applicable

4. PROFESSIONAL POSITIONS:

Affiliate Associate Professor Department of Biostatistics, University of Washington, Seattle, WA	Jun 2015 - Present
Associate Investigator Biostatistics Unit, Group Health Research Institute, Seattle, WA	May 2014 - Present
Affiliate Assistant Professor Department of Biostatistics, University of Washington, Seattle, WA	Apr 2013 - Jun 2015
Assistant Investigator Biostatistics Unit, Group Health Research Institute, Seattle, WA	Nov 2010 - Apr 2014
Post-doctoral Research Fellow School of Computer Science, McGill University, Montreal, QC, CAN	Jan 2009 - Oct 2010
Research Scientist Dept of Epidemiology and Preventive Medicine, Monash University, Melbourne, VIC, Australia	Jan 2007 - Dec 2008
Research Assistant Department of Statistics, University of Washington, Seattle, WA, USA	Jan 2004 - Sep 2006

Summer Associate
RAND, Pittsburgh, WA, USA

Jun 2003 - Dec 2003

Research Assistant
Center for Statistics in the Social Sciences, University of Washington, Seattle, WA, USA

Jun 2002 - Dec 2003

5. HONORS, AWARDS, and SCHOLARSHIPS:

Accepted as participant to Statistical and Applied Mathematical Sciences Institute Ideas Lab 2015
Nominated for GHRI Mentorship award 2013
VIGRE Travel Grant for Neural Information Processing Systems Conference, 2005
VIGRE Travel Grant for Uncertainty in Artificial Intelligence Conference, 2005
NSF Vertical Integration for Graduate Research and Education (VIGRE) Fellow, 2001-02, 2003-05
Center for Statistics and the Social Sciences Blalock Fellow, 2001

6. PROFESSIONAL ACTIVITIES

National Committee Member:

Chair Elect, ASA section on Statistics in Epidemiology, 2015 - 2016
Secretary/Treasurer, ASA section on Statistics in Epidemiology, 2012 - 2015
Member, PCORI's Methods Work Group for missing and inconsistent data issues in large data networks

Referee for:

Journals

American Journal of Epidemiology
Biometrics
Biometrical Journal
Canadian Journal of Statistics
Contemporary Clinical Trials
European Journal of Epidemiology
IEEE Transactions on Neural Networks and Learning Systems
IEEE Transactions on Pattern Analysis and Machine Intelligence
Journal of the American Statistical Association
Journal of Computational and Graphical Statistics
Statistics in Medicine

Conferences

Neural Information Processing Systems
Conference on Artificial Intelligence and Statistics
Conference on Knowledge Based Computer Systems
Conference in Neural Information Processing Systems
European Symposium on Algorithms
International Conference on Machine Learning
SIAM International Conference on Data Mining

Ad Hoc reviewer for research proposals from granting agencies

Patient-Centered Outcomes Research Institute (PCORI); Large Pragmatic Clinical Trials, Winter 2015 PFA; Spring 2015 PFA
Patient-Centered Outcomes Research Institute (PCORI); Assessment of Prevention, Diagnosis, and Treatment Options, Spring 2014 PFA; Summer 2014 PFA
Medical Research Council, United Kingdom
The Netherlands Organisation for Health Research and Development

Memberships:

American Statistical Association (ASA)
ASA Biometrics Section
ASA Health Policy Section
ASA Mental Health Statistics Section
ASA Statistics in Epidemiology Section

ASA Statistical Learning and Data Mining Section

International Biometric Society, Western North American Region

Society for Industrial and Applied Mathematics

Society for Clinical Trials

American Association for the Advancement of Science (AAAS)

AAAS Section on Statistics

7. BIBLIOGRAPHY:

a) Peer-reviewed research articles, reverse chronological order

1. Von Korff M, Dublin S, Walker RL, Parchman M, **Shortreed SM**, Hansen R N, Saunders K. (in press) The impact of opioid risk reduction initiatives on high-dose opioid prescribing for chronic opioid therapy patients. *The Journal of Pain*.
2. Simon GE, Coleman KJ, Rossom RC, Beck A, Oliver M, Johnson E, Whiteside U, Operskalski B, Penfold RB, **Shortreed SM**, Rutter R. (in press) Risk of suicide attempt and suicide death following completion of the Patient Health Questionnaire depression module in community practice. *Journal of Clinical Psychiatry*
3. LeResche L, Saunders K, Dublin S, Thielke S, Merrill JO, **Shortreed SM**, Campbell C, Von Korff MR. (in press) Sex and Age Differences in Global Pain Status among Patients using Opioids Long-term for Chronic Non-cancer Pain. *Journal of Women's Health*
4. Balderson BH, McCurry SM, Vitiello MV, **Shortreed SM**, Rybarczyk BD, Keefe FJ, Von Korff M. (in press) Information without Implementation: A Practical Example for Developing a Best Practice Education Control Group. *Behavioral Sleep Medicine*
5. Simon GE, Rossom RC, Beck A, Waitzfelder BE, Coleman KJ, Stewart C, Operskalski B, Penfold RB, **Shortreed SM**. (in press) Antidepressants are not over-prescribed for mild depression. *Journal of Clinical Psychiatry*
6. Saunders KW, **Shortreed SM**, Von Korff M, Thielke S, Turner JA, LeResche LA. (in press) Evaluation of Health Plan Interventions to Influence Chronic Opioid Therapy Prescribing. *The Clinical Journal of Pain*.
7. Lapham GT, Rubinsky AD, **Shortreed SM**, Hawkins EJ, Richards J, Williams EC, Berger D, Chavez LJ, Kivlahan DR, Bradley KA. (2015) Comparison of Provider-documented and Patient-reported Brief Intervention for Unhealthy Alcohol Use in VA outpatients *Drug and Alcohol Dependence*, 153:159-66
8. Friesen MC, **Shortreed SM**, Wheeler DC, Burstyn I, Vermeulen R, Pronk A, Colt JS, Baris D, Karagas MR, Schwenn M, Johnson A, Armenti KR, Silverman DT, Yu K. (2015) Identifying similar exposure scenarios in occupational questionnaire responses using hierarchical cluster models. *Annals of Occupational Hygiene*, 15(4):155-66/
9. Turner JA, Saunders K, **Shortreed SM**, LeResche L, Riddell K, Rapp SE, Von Korff M. (2014) Chronic Opioid Therapy Urine Drug Testing in Primary Care in an Integrated Group Practice: Prevalence and Predictors of Aberrant Results. *Journal of General Internal Medicine*, 29(12):1663-71.
10. **Shortreed SM**, Laber E, Stroup TS, Pineau J, Murphy SA. (2011) Multiple imputation for sequential multiple assignment randomized trials. *Statistics in Medicine*, 33(24):420214.

11. Nelson JC, **Shortreed SM**, Yu O, Peterson D, Baxter R, Fireman B, Lewis N, McClure D, Weintraub E, Jackson L. (2014) Integrating database knowledge and epidemiological design to improve the implementation of data mining methods to evaluate vaccine safety in large healthcare databases. *Statistical Analysis and Data Mining*, 7(5):33751.
12. McClure JM, Peterson S, Derry H, Riggs K, St. John J, Nair V, An L, **Shortreed SM**. (2014) Exploring the ‘active ingredients of an online smoking intervention: A randomized factorial trial. *Nicotine & Tobacco Research*, 16(8):1129-39.
13. Vitiello VM, McCurry SM, **Shortreed SM**, Baker LD, Rybarczyk BD, Von Korff M. (2014) Improved sleep quality predicts long-term improvements in sleep, pain, and fatigue in older adults with co-morbid osteoarthritis and insomnia. *PAIN*, 155(8):1547-54.
14. McCurry SM, **Shortreed SM**, Von Korff M, Balderson BH, Baker LD, Rybarczak BD, Vitiello MV. (2014) Who Benefits From CBT for Insomnia in Primary Care? Important Patient Selection and Trial Design Lessons from Longitudinal Results of the Lifestyles Trial. *Sleep*, 37(2):299-308.
15. Turner JA, Saunders K **Shortreed SM**, Rapp SE, Thielke S, LeResche LA, Riddell K, Von Korff M. (2014) Chronic opioid therapy risk reduction initiative: Impact on urine drug testing rates and results. *Journal of General Internal Medicine*, 29(2):305-11.
16. Von Korff M, **Shortreed SM**, Saunders KW, LeResche LA, Berlin JA, Stag P, Turner JA. (2014) Comparison of prognostic risk stratification item sets. *The Journal of Pain*, 15(1):81-9.
17. **Shortreed SM**, Bogart A, McClure J. (2013) Using multiple imputation to accommodate time-outs in online interventions. *Journal of Medical Internet Research*, 15(11):e252.
18. LeResche LA, Turner JA, Saunders KW, **Shortreed SM**, Von Korff M. (2013) Psychophysical tests as predictors of back pain chronicity in primary care. *The Journal of Pain*, 14(12):1663-70.
19. Turner JA, **Shortreed SM** Saunders KW, LeResche LA, Berlin JA, Von Korff M. (2013) Optimizing prediction of back pain outcomes. *Pain*, 154(8):1391.
20. Thielke SM, Turner JA, **Shortreed SM**, Saunders K, LeResche L, Campbell CI, Weisner CC, Von Korff M. (2013) Do patient-perceived pros and cons of opioids predict sustained higher-dose use? *Clinical Journal of Pain*, 30(2):93-101.
21. **Shortreed SM**, Peeters A, Forbes A. (2013) Estimating the effect of cumulative adult-life physical activity on CVD and mortality: evidence from the Framingham Heart Study. *Heart*, 99(9) 649-54.
22. Vitiello VM, McCurry SM, **Shortreed SM**, Balderson BH, Baker LD, Keefe FJ, Von Korff M. (2013) Cognitive-behavioral treatment for co-morbid insomnia and osteoarthritis pain in primary care: The Lifestyles trial. *Journal of the American Geriatrics Society (JAGS)*, 61(6):947-56.
23. McClure JB, **Shortreed SM**, Bogart A, Derry H, Riggs K, St. John J, Nair V, An L. (2013) The effect of program design on engagement with an internet-based smoking intervention: A randomized multiphase optimization strategy screening experiment. *Journal of Medical Internet Research*, 15(3):e69.

24. Wheeler DC, Burstyn I, Vermeulen R, Yu K, **Shortreed SM**, Pronk A, Stewart PA, Colt JS, Baris D, Silverman D, Friesen MC. (2013) Inside the black box: uncovering the latent decision rules used in case-by-case expert assessment of occupational exposure in case-control studies. *Occupational and Environmental Medicine*, 70(3):203-10.
25. McClure JB, Derry H, Riggs KR, Westbrook EW, St. John J, **Shortreed SM**, Bogart TA, An L. (2012) Questions about Quitting (Q2): Design and methods of a multiphase optimization strategy (MOST) randomized screening experiment for an online, motivational smoking cessation intervention. *Contemporary Clinical Trials*, 33(5):1094-102.
26. **Shortreed SM** and Moodie EEM. (2012) Estimating the optimal dynamic antipsychotic treatment regime: Evidence from the sequential multiple assignment randomized CATIE Schizophrenia Study. *Journal of the Royal Statistical Society, Series C*, 61(4):577-99.
27. **Shortreed SM**, Laber E, Lizotte DL, Stroup S, Pineau J, Murphy SA. (2011) Informing sequential clinical decision-making through reinforcement learning: An empirical study. *Machine Learning*, 84(1):109-36.
28. Brenmana SL, Cicuttinia FM, **Shortreed SM**, Forbes A, Stuckey SL, Wluka AE. (2010) Women lose patella cartilage at a faster rate than men: A 4.5year cohort study of subjects with knee OA. *Maturitas*, 67(3):270-4.
29. Abdullah A, Stowlwinder J, **Shortreed SM**, Wolfe R, Stevenson C, Walls H, de Courten M, Peeters A. (2011) The duration of obesity and the risk of type-2 diabetes. *Public Health Nutrition*, 14(1):119-26.
30. **Shortreed SM** and Forbes A. (2010) Missing data in the exposure of interest and marginal structural models: A simulation study based on the Framingham Heart Study. *Statistics in Medicine*, 29(4):431-43.
31. Urquhart DM, **Shortreed S**, Davis SR, Cicuttini FM, Bell R. (2009) Are low levels of low back pain Intensity and disability associated with reduced wellbeing in women? *Climacteric*, 12(3):266-75.
32. Botlero R, Davis SR, Urquhart D, **Shortreed S**, Bell R. (2009) Age-specific prevalence of, and factors associated with, different types of urinary incontinence in community-dwelling Australian women assessed with a validated questionnaire. *Maturitas*, 62(2):134-9.
33. Magliano DJ, Shaw JE, **Shortreed SM**, Nusselder WJ, Liew D, Barr ELM, Zimmet PZ, Peeters A. (2008) Lifetime risk and projected population prevalence of diabetes. *Diabetologia*, 51(12):2179-86.
34. **Shortreed S**, Handcock M and Hoff P. (2006) Positional estimation within the latent space model for networks. *Methodology: European Journal of Research Methods for the Behavioral and Social Sciences*, 2(1):24-33.
35. **Shortreed S** and Meilă M. (2005) Unsupervised spectral learning. Published in *proceedings of 21st Conference in Uncertainty in Artificial Intelligence*, edited by Fahiem Bacchus and Tommi Jaakkola.
36. Meilă M, **Shortreed S**, and Liang X. (2005) Regularized spectral learning. Published in *proceedings of Conference in Artificial Intelligence and Statistics*, edited by Robert Cowell and Zoubin Ghahramani.

b) Other Peer-reviewed Scholarly Publications:

1. **Shortreed, SM**, Peeters, P, Forbes, A (2008) Estimating the reduction in cardiovascular disease mortality risk. Abstract in *Proceedings of the American Heart Association Scientific Sessions*, 2008. Oral presentation at American Heart Association Scientific Sessions Conference, 11/08.

c) Books and book chapters:

Invited book chapters:

1. **Shortreed SM**, Laber E, Pineau J, Murphy SA. (in press) Imputing missing data from sequential multiple assignment randomized trials. Contributed to *Adaptive Treatment Strategies in Practice: Planning Trials and Analyzing Data for Personalized Medicine*, edited by Moodie, EEM and Kosorok, MR.
2. Hanuiese, S and **Shortreed SM** (in press) On the use of electronic health records for CER. Contributed to *Methods for Comparative effectiveness research*, edited by Gatsonis, C and Morton, SC.

d) Other Non-peer-reviewed scholarly publications:

1. Rutter CM and **Shortreed SM** (2012) Writing a Clinically Appraised Topic Is a Team Sport. *Academic Radiology*, 9(7):777-8.
2. **Shortreed S** and Forbes A (2007) Inverse probability weighted estimation of the marginal odds ratio: correspondence regarding ‘The performance of different propensity score methods for estimating marginal odds ratios.’ *Statistics in Medicine*, 27(26):5556-9.

8. PATENTS AND OTHER INTELLECTUAL PROPERTY:

Not Applicable

9. FUNDING HISTORY:**a) Funded Projects**

1. Integrating Addiction Research in Health Systems: the Addiction Research Network; PI: Bradley, Campbell, Weisner; National Institute on Drug Abuse; total direct costs:\$713,143; Co-investigator, 0.10 FTE, 7/1/2015-6/30/2020
2. Moderate Hypertension in Pregnancy: Safety and Effectiveness of Treatment; PI: Dublin; National Institute of Child Health and Human Development; total direct costs:\$3,972,752; Co-investigator, 0.30 FTE, 7/1/2015-6/30/2019
3. Alcohol-Related Care & Outcomes for Outpatients with HIV in a National VA Cohort; PI: Bradley, Williams; National Institute of Alcohol Abuse and Alcoholism; total direct costs:\$286,668; Co-investigator, 0.10 FTE, 5/1/2014-4/30/2016
4. Computable Algorithms for Identifying Opioid Abuse and Addiction; PI: Carrel; Federal Drug Administration; total direct costs: \$745,880; Co-investigator, 0.15 FTE; 5/1/2015 4/31/2016.
5. Pragmatic Trial of Population-based Programs to Prevent Suicide Attempt (UH3 MH007755-02); PI: Simon; National Institute of Mental Health; total direct costs: \$5,186,260; Co-investigator, 0.15 FTE; 09/16/2014 07/31/2018.
6. Mental Health Network II (U19 MH092201); PI: Simon; National Institutes of Mental Health; total direct costs: \$4,618,497; Co-investigator, 0.05 FTE; 8/1/2014 - 6/30/2019.
7. Examining Longitudinal Change in BMI for Youth Treatment with Second Generation Antipsychotic Medications (HHSF223200910006I); PI: Penfold; Federal Drug Administration; total direct costs: \$225,000; Co-investigator, 0.05 FTE; 07/01/2014 - 12/31/2015.

8. Evaluation of Group Healths Multi-faceted Chronic Opioid Therapy Risk Reduction Initiative (213-109.001); PI: Von Korff; Pfizer; total direct costs: \$120,858; Co-Investigator, 0.10 FTE; 05/01/2014 - 04/30/2015
9. Evaluation of a Health Plan Initiative to Mitigate Chronic Opioid Therapy Risks (IHS-1306-02198); PI: Von Korff; Patient-Centered Outcomes Research Institute (PCORI); total direct costs \$1,279,579; Co-Investigator, 0.20 FTE; 05/01/2014 - 04/30/2017
10. Evaluation of Quality Measures for Brief Alcohol Interventions (AA020894-01A1); PI: Bradley; National Institute on Alcohol Abuse and Alcoholism; total direct costs: \$255,161; Co-investigator, 0.15 FTE; 07/05/2012-12/30/2014
11. Suicidal Ideation Onset Following Antidepressant Initiation (SRG-0-008-11); PI: Penfold; American Foundation for Suicide Prevention; total direct costs \$74,997 ; Co-investigator, 0.12 FTE; 10/01/2012-01/31/2015
12. Treatment Patterns and Clinical Outcomes Associated with Augmentation Therapy in Major Depressive Disorder (CN138-673); PI: Penfold; Grant from Bristol Meyers Squibb; total direct costs; \$103,120 ;Co-investigator, 0.20 FTE; 02/01/2012 - 08/31/2012
13. Studying Colorectal Cancer Effectiveness of Screening Strategies (U54CA163261); PI: Rutter; National Cancer Institute; total direct costs: \$3,572,022; Co-investigator, 0.25 FTE; 09/20/2011-05/31/2016
14. Practice Variation in High-and Low-value Treatments for Mood Disorders: Mental Health Research Network: A Population-Based Approach to Transform Research (U19 MH092201); PI Simon; National Institute of Mental Health; total direct costs \$584,157 ;Co-investigator, 0.10 FTE; 09/24/2010-07/31/2014
15. Transition to Long-Term Opioid Use among Older Adults with Chronic Pain (1R01AG034181); PI: Von Korff; National Institute on Aging; total direct costs \$2,158,133; Co-investigator, 0.20-0.25 FTE; 05/15/2010-04/30/2015
16. Optimizing an Online Motivational Tobacco Cessation Program (R01 CA138598); PI: McClure; National Cancer Institute; total direct costs \$1,728,487; Co-investigator, 0.10 FTE; 03/01/2009-12/31/2013
17. Cognitive Behavioral Therapy for Arthritis Pain and Insomnia in Older Adults (R01AG031126); PIs: Vitiello, Von Korff and McCurry; National Institute on Aging; total direct costs \$992,432; Co-investigator, 0.10-0.25 FTE; 09/01/2008-07/31/2014
18. Learning Adaptive Treatment Strategies in Mental Health (R01MH080015); PI: Murphy; National Institute of Mental Health; Post-doctoral Research Fellow, 1.00 FTE; 5/1/2007-4/30/2012
19. Vaccine Safety Datalink (VSD) (200-2002-00732); PI: Jackson; Centers for Disease Control and Prevention (CDC); Co-investigator, 0.20 FTE; 10/01/2002 - 09/19/2012

10. CONFERENCES and SYMPOSIUMS: (Like presentations grouped; * indicates invited presentation)

1. **Health science research using data collected from clinical care*, Data Science – > Data Sense Symposium, Sponsored by the Fred Hutchinson Cancer Research Center, Seattle, WA, (05/2015)
2. **Constructing dynamic treatment regimes*, Program in Health Economics and Outcomes Methodology, Seattle, WA, (01/2015)
3. *Integrating Multiple Imputation and the Bootstrap*, Joint statistical meetings, Boston, MA (8/2014)
4. **Variable Selection for Causal Inference*, Conference of the Western North American Region of the International Biometric Society, Honolulu, HI, USA (6/2014)

5. **Outcome-adaptive Variable Selection*, Simon Fraser University, Burnaby, BC, USA (4/2014)
6. **Framework for Integrating Multiple Imputation and the Bootstrap*, Fred Hutchinson Cancer Research Center, Seattle, WA, USA (12/2013)
7. **Marginal Structural Modeling to Estimate the Effect of Long-term Physical Activity on Cardiovascular Disease and Mortality*, Group Health Research Institutes, Seattle, WA, USA (09/2013)
8. *Multiple Imputation Strategy for Sequential Multiple Assignment Randomized Trials*, Joint Statistical Meetings, Montreal, QC, CAN (08/2013)
9. *Data Mining for Adverse Events in the Vaccine Safety Datalink Collaboration*, Joint Statistical Meetings, San Diego, CA, USA (08/2012)
10. **Accommodating Missing Data when Constructing Dynamic Treatment Regimes*, International Chinese Statistical Association, Applied Statistics Symposium, Boston, MA, USA (6/2012)
11. **Estimating the Optimal Dynamic Antipsychotic Treatment Regime: Evidence from the CATIE Schizophrenia Study*, Annual meeting for the Society of Clinical Trials, Miami, FL, USA (05/2012)
12. *Introduction to Sequential Multiple Assignment Randomized Trials*, UW Biostatistics, Clinical Trials Working Group, Seattle, WA, USA (3/2012)
13. **Constructing Dynamic Treatment Regimes: Evidence from the Clinical Antipsychotic Trials of Intervention and Effectiveness*, Monash University, Department of Epidemiology and Preventive Medicine, Melbourne, VIC, Australia (12/2011)
14. **The Role of Data Mining in Post-licensure Vaccine Safety Surveillance*, 2011 International Workshop on Pharmacoepidemiology and Biostatistics, Seattle, WA, USA (12/2011)
15. **Multiple Imputation Strategy for Sequential Multiple Assignment Randomized Trials*, University of Washington, Department of Biostatistics, Seattle, WA, USA (10/2011)
16. **Introduction to Semiparametric Theory*, McGill University, Reinforcement Learning Lab, Montreal, QC, CAN (10/2010)
17. **Learning the Similarity Matrix for Spectral Clustering*, 5th Workshop on Reinforcement Learning, Barbados (03/2010)
18. *Using Reinforcement Learning to Inform Clinical Decision Making, some practical considerations*, McGill University, Reinforcement Learning Lab, Montreal, QC, CAN (03/2010)
19. **Estimating Optimal Dynamic Treatment Regimes: An Application to Schizophrenia*, Group Health Research Institute, Seattle, WA, USA (03/2010)
20. *Missing Data Methods in Epidemiologic Studies*, Joint Statistical Meetings, Washington, DC, USA (08/2009)
21. **Learning the Similarity Matrix for Spectral Clustering*, Colloque de statistique de Montréal, SRM/ISM/GERAD, Montreal, QC, CAN (03/2009)

22. **Introduction to Spectral Clustering and Variable Weighting*, McGill University, Reinforcement Learning Lab, Montreal, QC, CAN (01/2009)
23. **Estimating the Reduction in Cardiovascular Disease Mortality Risk Due to Long Term Physical Activity in the Framingham Heart Study*, American Heart Association Scientific Sessions, New Orleans, LA, USA (11/2008)
24. **Estimating Causal Effects from Epidemiological Data*, Monash University, Department of Epidemiology and Preventive Medicine, Melbourne, VIC, Australia (10/2008)
25. **Practical Issues in Fitting Marginal Structural Models to Estimate the Effect of Lifestyle Risk Factors on Disease*, Australian Statistical Conference, Melbourne, VIC, Australia (06/2008)
26. **Using Graphs to Learn from Data*, Cambridge University, Statistics Lab, Centre for Mathematical Sciences, Remote connection from Melbourne, VIC, Australia to Cambridge, UK (02/2008)
27. **Learning in Spectral Clustering*, University of Washington, Statistics Department, Seattle, WA, USA (11/2006)
28. **Learning in Spectral Clustering*, National Institute for Statistical Sciences, Raleigh, NC, USA (03/2006)
29. **Learning in Spectral Clustering*, AT&T Bell Labs, Middletown, PA, USA (03/2006)
30. **Learning in Spectral Clustering*, University of California Los Angeles, Statistics Department, Los Angeles, CA, USA (03/2006)
31. *Regularized Spectral Learning*, University of Washington, Statistics Department, Seattle, WA, USA (06/2005)
32. *Spectral Energy Minimization for Semi-Supervised Learning*, University of Washington, Unsupervised Learning Working Group, Seattle, WA, USA (05/2005)
33. *Unsupervised Learning in Spectral Clustering*, Unsupervised Learning Working Group, University of Washington, Seattle, WA, USA (10/2004)
34. *Positional Estimation within the Latent Space Model for Networks*, University of Washington, Students in Statistics and the Social Sciences, Seattle, WA, USA (05/2004)
35. *Latentnet an R package*, University of Washington, Social Networks Working Group, Seattle, WA, USA (10/2003)
36. *Applying the Latent Space Model to Social Networks*, University of Washington, Statistics Department, Seattle, WA, USA (06/2003)

11. PROFESSIONAL SERVICE:

Panelist at Technology Access Foundation's Women in Science Symposium, 04/2015

Conference Session Chairs

Joint Statistics Meetings, 2013, 2014

Annual meeting of the Society of clinical trials, 2012

Local service and involvement, GHRI

Member of Committee Excellence and Engagement, 6/2012 - current

Member of Biostatistics Investigator Search Committee, 8/2014 - current

Member of Biostatistics Investigator Search Committee, 8/2013 - 5/2014

Organizer for GHRI Junior Investigator Group (JIG), 12/2010 - 1/2014

Volunteered at GHRI booth at Group Health Annual Meeting, 10/2012

Member of GHRI Biostatistician (non-investigator) search committee, 12/2011 - 01/2012

Member of Strategic Planning and Development Interdisciplinary Involvement Committee,
01/2012 - 03/2012

Member of Committee to assess GHRI biostatistics request process, 04/2011 - 09/2011

Local service and involvement, Department of Biostatistics, University of Washington
Grader for Department of Biostatistics PhD Applied Statistics Examination, 2013

Local service and involvement, McGill University

Founder and organizer of reading group on causal inference, 2009-2010

Biweekly reading group discusses current papers on causal inference methodology and applications of these methods. Group is ongoing under different leadership.

Multidisciplinary group, members include students, post-docs and professors from biostatistics, epidemiology, statistics and computer science.

Founder and Organizer of reading group on semi-parametric modelling, 2009-2010

12. TEACHING HISTORY:

Guest lecturer, Biostat 111 Jun 2015

Biostatistics Department, University of Washington

Using data collected during clinical care to prevent suicide attempts and death

Instructor

Aug 2007 - Nov 2007

Biostatistics Collaboration of Australia, Linear Models

Teaching Assistant

Feb 2007 - May 2007

Biostatistics Collaboration of Australia, Probability and Distribution Theory

Tutor

Sept 2003 - Dec 2006

Statistics Tutoring Center, Department of Statistics, University of Washington

Teaching Assistant

Jan 2002 to Dec 2006

Department of Statistics, University of Washington

Courses:

Undergraduate introductory statistics course for non majors, Fall 2006

Graduate level non parametric statistics course, Spring 2006

Undergraduate introductory statistics course, Fall 2003

Undergraduate introductory statistics course for non majors, Winter 2002

13. ADVISING and FORMAL MENTORING:

a) PhD Dissertation, chair: Not applicable

b) Masters Theses, chair: Not applicable

c) Mentored Scientists and Postdocs: Not applicable

d) MS Committees in non-chair roles: Not applicable

e) PhD Committee: Elisa Sheng, Department of Biostatistics, University of Washington

f) Other Mentoring

Supervisor for biostatisticians Rod Walker, MS and Eric Johnson, MS

Supervisor for GHRI Biostatistics Unit post-doc Jane Lange, PhD.

Senior statistician on grant with additional statisticians

Melissa Anderson, Andy Bogart, Eric Johnson, Do Peterson, Onchee Yu, Rod Walker

Marcos Ginestra, School of Computer Science, McGill University, National Science and Engineering Research Council of Canada (NSERC) undergraduate, May 2009 - May 2012

g) Academic Advising: Not applicable

14. OTHER PERTINENT INFORMATION AS NEEDED:

Not applicable