

Samuel Alan Stewart

Assistant Professor, Medical Informatics
Department of Community Health & Epidemiology
Faculty of Medicine, Dalhousie University
Halifax, NS, Canada

1 EDUCATION

- **Doctor of Philosophy, Health Informatics**, Dalhousie University, 2009-2013
 - Dissertation: *Combining Social Network and Semantic Content Analysis to Improve Knowledge Translation in Online Communities of Practice*
 - Supervisors: Dr. Syed Sibte Raza Abidi and Dr. Allen Finley
 - Committee: Dr. Jill Hayden, Dr. Samina Abidi
 - Examiner: Dr. Jim Warren (University of Auckland)
- **Master of Mathematics, Biostatistics**, University of Waterloo, 2006-2008
 - Project: *An Introduction to Graphical User Interface Construction in R*
 - Supervisor: Dr. Paul Marriott
- **Bachelor of Science, Statistics and Computer Science (Combined Honours)**, University of King's College, Halifax, 2002-2006

2 WORK EXPERIENCE

- **Assistant Professor** (*Medical Informatics, Dalhousie University, July 2015-Present*)
 - Teaching in the Masters of Health Informatics Program, the Masters of Community Health and Epidemiology Program and the Undergraduate Medical Education Program
 - Developing research programs within the world of health informatics
 - Collaborating with the medical and computer science communities on medical research
- **Director of Health Data Nova Scotia (HDNS)** (*Dalhousie University, July 2016-Present*)
 - Provide academic leadership for HDNS
 - Liaise between the academic community and HDNS
 - Provide direction in data acquisition and facilitate communication between HDNS and data providers
- **Post-Doctoral Researcher** (*NICHE Research Group, Dalhousie University, Jan. 2014 – July 2015*)
 - Software development and deployment on the D-WISE project
 - Pursuing Big Data analysis on QEII HSC lab data
- **Data Scientist** (*Dept. of Medicine, University of Saskatchewan, Feb. 2013 – June 2015*)
 - Statistical support for faculty and residents in the department of medicine
 - Research methods and data gathering support for new projects
 - Data analysis and manuscript preparation on a variety of medical topics
- **Statistical Consultant** (*Dept. of Statistics, Dalhousie University, Jan 2009 - May 2012*)
- **Research Statistician** (*QEII Health Sciences Centre: May 2007 - Jan 2009*)
- **Teaching Assistant** (*University of Waterloo: Sept 2006 - Spring 2007*)
- **Teaching Assistant** (*Dalhousie University: Sept 2005 - Apr 2006*)

2.1 ADMINISTRATIVE ROLES

- Dalhousie Scientific REB, 2016-Present
- MSSU Scientific Leadership, July 2018-Present
- NS Provincial Advisory Committee for MSSU, March 2018-Present

3 RESEARCH INTERESTS

- Health Data Analytics
 - HI project evaluation
 - Text analytics
 - Semantic mapping
 - Terminology systems
 - Social network analysis
 - Communication analytics
 - Big data analytics
- Health Knowledge Translation
 - Patient empowerment
 - Shared decision making
 - Just in time knowledge delivery services and infobuttons
 - Medical education
 - Online communities of practice
- Clinical Decision Support
 - Clinical Decision Support System
 - Computerized Clinical Practice Guidelines
 - Health information systems
 - Co-morbid disease management

4 PUBLICATIONS, PRESENTATIONS AND ABSTRACTS

1. Catherine MJ Cox, **Samuel A Stewart**, Katrina F Hurley. Firearm-related injuries among Canadian children and youth from 2006 to 2013: a CHIRPP study. *Canadian Journal of Emergency Medicine*, 1-5, 2018/04.
2. Melanie R Keats, Kelsey Shea, Louise Parker, **Samuel A Stewart**, Annette Flanders, Mark Bernstein. After Childhood Cancer: a Qualitative Study of Family Physician, Parent/Guardian, and Survivor Information Needs and Perspectives on Long-Term Follow-up and Survivorship Care Plans. *J Cancer Educ*. 2018 Mar 19. doi: 10.1007/s13187-018-1349-1
3. Regina Taylor-Gjevre, Bindu Nair, Brenna Bath, Udoka Okpalauwaekwe, Meenu Sharma, Erika Penz, Catherine Trask, **Samuel Alan Stewart**. Addressing rural and remote access disparities for patients with inflammatory arthritis through video-conferencing and innovative inter-professional care models. *Musculoskeletal Care*. 2018 Mar;16(1):90-95. doi: 10.1002/msc.1215.
4. **SA Stewart**, AO Clive, NA Maskell, E Penz. Evaluating quality of life and cost implications of prophylactic radiotherapy in mesothelioma: Health economic analysis of the SMART trial. *PLoS One* 13 (2), e0190257. 2018

5. Marc W Morris, **Samuel A Stewart**, Courtney Heisler, William J Sandborn, Edward V Loftus, Gordon A Zello, Sharyle A Fowler, Jennifer L Jones. Biomarker-Based Models Outperform Patient-Reported Scores in Predicting Endoscopic Inflammatory Disease Activity. *Inflammatory Bowel Diseases* 24 (2), 277-285. 2018.
6. GHF Johnston, **SA Stewart**. Intrarater Reliability of Range of Motion Measurements of the Uninjured Wrist in Women After Distal Radius Fracture. *Journal of Hand Surgery* 43 (1), 1-7. (2018)
7. **SA Stewart**, M Rajaraman, AF Costa. Web-Based Tool for Standardized Reporting of Thyroid Ultrasound Studies. *American Journal of Roentgenology* 210 (1), 39-42. (2018)
8. Heather Ward, **Samuel Stewart**, Assaad Al-Azem, Bruce Reeder, Vernon Hoepfner. Quantifying local TB risk factors and determining the relative cost of treatment of latent TB infection to prevent tuberculosis. *Canadian Journal of Respiratory, Critical Care, and Sleep Medicine*. Pages 1-8. (2017)
9. Jennifer E Isenor, Laura V Minard, **Samuel A Stewart**, Janet A Curran, Heidi Deal, Glenn Rodrigues, Ingrid S Sketris. (2017). Identification of the relationship between barriers and facilitators of pharmacist prescribing and self-reported prescribing activity using the theoretical domains framework. *Research in Social and Administrative Pharmacy*. <https://doi.org/10.1016/j.sapharm.2017.10.004>
10. M Böhrer, **SA Stewart**, KF Hurley. (2017). Epidemiology of electrical and lightning-related injuries among Canadian children and youth, 1997-2010: A Canadian Hospitals Injury Reporting and Prevention Program (CHIRPP) study. *Canadian Journal of Emergency Medicine*, 1-6
11. **SA Stewart**, SSR Abidi. (2017). Leveraging medical taxonomies to improve knowledge management within online communities of practice: The knowledge maps system. *Computer Methods and Programs in Biomedicine* 143, 121-127
12. Pianosi K, **Stewart S A**, Hurley K (August 24, 2017) Medical Students' Perceptions of Emergency Medicine Careers. *Cureus* 9(8): e1608. doi:10.7759/cureus.1608
13. **SA Stewart**, E Penz, M Fenton, R Skomro. (2017). Investigating Cost Implications of Incorporating Level III At-Home Testing into a Polysomnography Based Sleep Medicine Program Using Administrative Data. *Canadian Respiratory Journal*.
14. **SA Stewart**, SSR Abidi. (2017). Leveraging medical taxonomies to improve knowledge management within online communities of practice: The knowledge maps system. *Computer Methods and Programs in Biomedicine* 143, 121-127
15. BV Nair, R Schuler, **S Stewart**, RM Taylor-Gjevre. (2016). Self-Reported Barriers to Healthcare Access for Rheumatoid Arthritis Patients in Rural and Northern Saskatchewan: A Mixed Methods Study. *Musculoskeletal care* 14 (4), 243-251
16. Amelia O Clive, Hazel Taylor, Lee Dobson, Paula Wilson, Emma de Winton, Niki Panakis, Justin Pepperell, Timothy Howell, **Samuel A Stewart**, Erika Penz et al. (2016). Prophylactic radiotherapy for the prevention of procedure-tract metastases after surgical and large-bore pleural procedures in malignant pleural mesothelioma (SMART): a multicentre, open-label, phase 3, randomised controlled trial. Published Online: 23 June 2016. DOI: [http://dx.doi.org/10.1016/S1470-2045\(16\)30095-X](http://dx.doi.org/10.1016/S1470-2045(16)30095-X)
17. Melissa Rothfus, Ingrid S. Sketris, Robyn Traynor, Melissa Helwig & **Samuel A. Stewart**. (2016). Measuring Knowledge Translation Uptake Using Citation Metrics: A Case Study of a Pan-Canadian Network of Pharmacoepidemiology Researchers. Published online: 27 Jun 2016

18. Nair, B. V., Schuler, R., **Stewart, S.**, and Taylor-Gjevre, R. M. (2016) Self-Reported Barriers to Healthcare Access for Rheumatoid Arthritis Patients in Rural and Northern Saskatchewan: A Mixed Methods Study. *Musculoskelet. Care*, doi: 10.1002/msc.1146
19. BV Nair, R Schuler, **S Stewart**, RM Taylor-Gjevre. (2016). Self-Reported Barriers to Healthcare Access for Rheumatoid Arthritis Patients in Rural and Northern Saskatchewan: A Mixed Methods Study. *Musculoskeletal care* 14 (4), 243-251
20. B Hill-Taylor, KA Walsh, **S Stewart**, J Hayden, S Byrne, IS Sketris. (2016) Effectiveness of the STOPP/START (Screening Tool of Older Persons' potentially inappropriate Prescriptions/Screening Tool to Alert doctors to the Right Treatment) criteria: systematic review and meta-analysis of randomized controlled studies. *Journal of Clinical Pharmacy and Therapeutics* 41 (2), 158-169
21. RM Taylor-Gjevre, A Mitchell, M Street, DA Leswick, **SA Stewart**, H Obaid (2016). The role of radiology in the quantification of digital ulnar deviation in rheumatoid arthritis patients. *Journal of medical imaging and radiation oncology* 60 (3), 323-328
22. Mansell H, **Stewart SA**, and Shoker A.(2014) *Validity of Cardiovascular Risk Prediction Models in Kidney Transplant Recipients*. *The Scientific World Journal* Volume 2014 (2014), Article ID 750579
23. **Stewart SA**, Daniyal A, Abidi SSR. (2013). *Leveraging Big Data for Improving Lab Management*. 2nd Conference on Advanced Methods of Biological Data and Signal Processing, November 21 - November 21, 2013.
24. **Stewart SA**, Abidi SSR. (2013). *Exploiting Social Network and Semantic Content Analyses to Facilitate Online Knowledge Translation within an Online Community of Practice*. Conference on Mobile and Information Technologies in Health, November 20 - November 20, 2013.
25. Ross KL, Bhasin S, Wilson MP, **Stewart SA**, Wilson TW. (2013). *Accuracy of drug store blood pressure monitors: an observational study*. *Blood Press Monit.* 18(6):339-41.
26. Anderson K, Klassen J, **Stewart SA**, Taylor-Gjevre RM. (2013). *Does geographic location affect incidence of ANCA-associated renal vasculitis in northern Saskatchewan, Canada?*. *Rheumatology (Oxford)*. 2013 Oct;52(10):1840-4.
27. Watson FL, Miller RJ, **Stewart SA**. (2013). *Spatial and temporal variation in size at maturity for female American lobster in Nova Scotia*. *Canadian Journal of Fisheries and Aquatic Sciences*. 70(8):1240-1251.
28. Yip CE, **Stewart SA**, Imran F, Clarke DB, Mokashi A, Kaiser SM, Imran SA. (2013). *The role of morning basal serum cortisol in assessment of hypothalamic pituitary-adrenal axis*. *Clin Invest Med*. 2013 Aug 1;36(4):E216-22.
29. Abidi SS, **Stewart SA**, Shepherd M, Abidi SSR. (2013). *Usability Evaluation of Family Physicians' Interaction with the Comorbidity Ontological Modeling and ExecuTION System (COMET)*. *Studies in Health Technology and Informatics*. 192:447-51.
30. **Stewart SA** and Abidi SSR. (2013). *Linking Like-minded Professionals within an Online Medical Community Based on their Message Content*. In 16th International Symposium on Health Information Management Research (ISHIMR 2013) proceedings.
31. **Stewart SA** and Abidi SSR. (2012). *An Infobutton For Web 2.0 Clinical Discussions: The Knowledge Linkage Framework*. *IEEE Transactions on Information Technology in Biomedicine*: 16(1), January 2012, 129-135
32. **Stewart SA** and Abidi SSR. (2012). *Using Social Network Analysis to Study the Knowledge Sharing Patterns of Health Professionals Using Web 2.0 Tools*. *Biomedical Engineering Systems and*

- Technologies. Communications in Computer and Information Science, Volume 273, 2013, pp 335-352
33. **Stewart SA** and Abidi SSR. (2012). *Applying Social Network Analysis to Understand the Knowledge Sharing Behavior of Practitioners in a Clinical Discussion Forum*. Journal of Medical Internet Research. doi:10.2196/jmir.1982.
 34. **Stewart SA**, von Maltzahn ME and Abidi SSR. (2012). *Comparing Metamap to MGrep as a Tool for Mapping Free Text to Formal Medical Lexicons*. In Knowledge Extraction & Consolidation from Social Media 2012: Proceedings of the 1st International Workshop on Knowledge Extraction & Consolidation from Social Media. Boston, MA. 63-77.
 35. Wing A, Hill-Taylor B, Sketris I, Smith J, **Stewart SA**, Hurley KF. (2012). *Medication Records in the Emergency Department: Agreement Between Paper-Based Charts and Automated Dispensing Device*. CJHP. 2012 Aug;65(4).
 36. **Stewart SA** and Abidi SSR. (2011). *Understanding Medicine 2.0 - Social Network Analysis and the VECoN System*. In Proceedings of the International Conference on Health Informatics, pages 70-79. DOI: 10.5220/0003167100700079
 37. **Stewart SA**, Abidi SSR, Finley GA. (2010). *Pediatric pain management knowledge linkages: mapping experiential knowledge to explicit knowledge*. Studies in Health Technology and Informatics 160: 1184-8
 38. **Stewart SA**, Abidi SSR, Finley GA. (2010). *Linking specialized online medical discussions to online medical literature*. In Denecke K et al. (Eds) Using Web Data in the Medical Domain - Proc 1st Intl Workshop on Web Science and Information Exchange in the Medical Web (MedEx 2010). Raleigh, NC.
 39. **Stewart SA**, Skomro R, Reid J, Penz E, Fenton M, Gjevre J, Cotton D. (2015) *Improvement in OSA diagnosis and management wait times – a retrospective analysis of home management pathway for obstructive sleep apnea*. Canadian Respiratory Journal, 22(3): 167-170.
 40. Davis S, Abidi SS, **Stewart SA**. *A compositional personalization approach for designing personalized patient educational interventions for cardiovascular risk management*. Studies in Health Technology and Informatics. 2010; 160: 629-33.

4.1 INVITED TALKS

1. Bibliometrics Analysis and CNODES – Why We Count. North America SciVal User Group meeting, April 19th, 2018, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA.
2. Geriatrics Research Using Administrative Data: The role of HDNS in Academic Research. Geriatrics Grand Rounds, March 28, 2018, QEII HSC, Halifax, NS, Canada.
3. Leveraging Medical Lexicons to Improve Health Data Analytics. AARMS Workshop on Statistical Learning and Health Data Analytics, October 15, 2017, Fredericton, New Brunswick, Canada.

4.2 ABSTRACTS (POSTERS AND PRESENTATIONS)

1. **Stewart SA**, Abidi SSR. *Supplementing Online Clinical Discussions with Medical Literature: The Knowledge Linkages Framework*. Qatar Foundation Annual Research Conference, November 18-19 2014.
2. **Stewart SA**, Abidi S, Abidi SSR, Parker L, Bernstein M. *Creating a Knowledge-Based Personal Patient Diary for Pediatric Cancer Survivors*. ARCC Conference 2014, May 11-12, Toronto, ON.

3. **Stewart SA**, McCrae S, Reid J, Gjevre J, Fenton M, Cotton D, Skomro R. *Impact of Level III Home Testing on Overall Wait Times at a Tertiary Sleep Disorders Center*. Canadian Respiratory Conference, April 24-25, 2014, Calgary, AB.
4. **Stewart SA**, McCrae S, Reid J, Gjevre J, Fenton M, Cotton D, Skomro R. *Impact of introduction of HM pathway on PSG Wait Times at a tertiary sleep disorders center*. Canadian Sleep Society Annual General Meeting, Oct. 2013, Halifax, NS.
5. **Stewart SA**, McCrae S, Reid J, Gjevre J, Fenton M, Cotton D, Skomro R. *Care Management Pathway Navigation at a Tertiary Sleep Disorder Center*. Canadian Sleep Society Annual General Meeting, Oct. 2013, Halifax, NS.
6. **Stewart SA**, McCrae S, Reid J, Gjevre J, Fenton M, Cotton D, Skomro R. *Evaluation of OSA Disease Severity and Demographics at a tertiary Sleep Disorder Center*. Canadian Sleep Society Annual General Meeting, Oct. 2013, Halifax, NS.
7. Morris MW, **Stewart SA**, Sandborn WJ, Loftus EV, Fowler SA, Jones J. *Objectifying the Crohn's Disease Activity Index (CDAI): Can We Teach an Old Score New Tricks?* ACG Annual Meeting 2013, San Diego, USA.
8. Fenton ME, Graham B, Reid J, Skomro R, Gjevre J, Cotton D, **Stewart SA**, Ollegasagem A. *Optimal fixed pressure CPAP can be determined using a 4 day auto-CPAP titration protocol*. CHEST 2013, Chicago, IL.
9. **Stewart SA** and Abidi SSR. *Using Social Network Analysis to Understand Online Healthcare Knowledge Sharing Between Healthcare Professionals*. AHIC 2012, Toronto, Ontario, Canada, April 26th, 2012.
10. **Stewart SA** and Abidi SSR. *Knowledge translation through web 2.0 tools: Towards online community-drive knowledge translation*. eHealth 2012, Vancouver, BC, May 28th, 2012.
11. **Stewart SA** and Abidi SSR. *A medical literature search strategy for linking on-line clinical discussions with corresponding medical literature: Googling Pubmed*. eHealth 2012, Vancouver, BC, May 28th, 2012.
12. **Stewart SA** and Abidi SSR. *Using Social Network Analysis to Understand Web 2.0 Communications*. Med 2.0'11 Conference, Stanford, CA, USA. September 18, 2011.
13. **Stewart SA**, Abidi SSR and Finley A. *Knowledge Linkages: Mapping Experiential Knowledge to Explicit Knowledge*. Innovation and Research in Health Informatics, IWK Health Centre, Halifax, NS, February 28, 2011.
14. **Stewart SA** and Abidi SSR. *Understanding Medicine 2.0 Social Network Analysis and the VECOn System*. Healthinf 2011: International Conference on Health Informatics. Rome, Italy, January 26, 2011
15. **Stewart SA**, Abidi SSR, Finley A and Thienthong S. *E-health Solutions for Interactive Knowledge Translation: An Online Portal for Pediatric Pain Management in Thailand*. 4th ASEAPS 2011 Conference, 5th to 8th May 2011, Pattaya, Chonburi, Thailand.
16. **Stewart SA**, Abidi SSR, Finley A. *Knowledge Management Framework to Link Experiential Pain Management Knowledge to Published Literature*. 4th ASEAPS 2011 Conference, 5th to 8th May 2011, Pattaya, Chonburi, Thailand.
17. **Stewart SA**. *Knowledge Linkages: Augmenting Online Clinical Care Discussions with Published Literature*. Med 2.0'10 Conference, Maastricht, NL. November 30, 2010.
18. **Stewart SA**, Abidi SSR and Finley A. *Linking Specialized Online Medical Discussions to Online Medical Literature*. MedEx 210, Raleigh, NC, USA, April 26, 2010.
19. **Stewart SA**. *Social Network Analysis: Understanding Online Communication Patterns*. Dalhousie Health Informatics Research Network, November 17, 2009.
20. **Stewart SA**. *Linking Electronic Conversations to Pertinent Medical Literature: The Pediatric Pain Mailing List*. APICS Conference, October 24, 2009.

21. **Stewart SA.** *Custom classification trees in R: the longRPart package.* Annual meeting of the Statistical Society of Canada, June 1, 2009, Vancouver BC.
22. **Stewart SA.** *Custom classification trees in R: the longRPart package.* useR conference, July 10, 2009, Rennes, France.
23. Abraham R, Abdoell M and **Stewart SA.** *Development of an Online IR Teaching Manual with Blackboard Learning System (BLS) and Podcasting.* Presented at Society of Interventional Radiology Annual Meeting, March 7-12, 2009, San Diego, CA.
24. Abdoell M, Payne J, Caines J, **Stewart SA,** Lou W. *An Open-Source Model for Automated Public Health Surveillance Systems: the case of the Nova Scotia Breast Screening Program.* Poster presented at the joint annual meeting Statistical Society of Canada & Societe francaise de Statistique, May 27, 2008, Ottawa ON.
25. Abdoell M, Payne J, Caines J, **Stewart SA,** Lou W. *An Open-Source Model for Automated Public Health Surveillance Systems: the case of the Nova Scotia Breast Screening Program.* Canadian Public Health Association Annual Conference, June 3 2008, Halifax, NS.
26. Abdoell M, LeBlanc M, **Stewart SA.** *Multivariate Regression Trees.* Poster Presented at the joint annual meeting Statistical Society of Canada & Societe francaise de Statistique, May 27, 2008, Ottawa ON.

4.3 PEER REVIEWING ACTIVITIES

- I have reviewed for the following journals in the past years
 - 2018 (3): BMC Medicine; BMC Research Methodology; PLoS One;
 - 2017 (1): BMC Health Services Research;
 - 2016 (5): BMC Medical Informatics and Decision Making; Health and Social Care in the Community; Health Information and Libraries Journal; Journal of Medical Systems; Artificial Intelligence in Medicine
 - 2015 (2): BMC Research Notes; Dove
- I have reviewed for the following conferences
 - MEDINFO: 2017 (3 papers)
 - ICTH: 2016 (2), 2017 (1), 2018 (2)

5 GRANTS AND RESEARCH PROJECTS

5.1 GRANTS RECEIVED

1. SPOR National Data Platform

- **Funding:** CIHR
- **Role:** Co-Investigator
- **PI:** Kim McGrail
- **Amount:** \$39,000,000

2. Opioid Use Following Opioid Prescription for Non-Specific Low Back Pain in Nova Scotian Emergency Departments.

- **Funding:** CRISM Quebec-Atlantic Research Development Program (July 2018-June 2019) AND CDHA/IWK Transforming Research into Care (TRIC) Funding Competition
- **Role:** Co-Investigator

- **PI:** Jill Hayden
- **Amount:** \$10,000 + \$3,000
- 3. Predictive Modeling to Predict Personalized Spinal Surgery Outcomes: A Data-Driven e-Health Platform for Informed and Shared Decision Making to Triage Spinal Surgeries**
 - **Funding:** CIHR Catalyst Grant 2017
 - **Role:** Co-Investigator
 - **PI:** Syed Sibte Raza Abidi
 - **Amount:** \$200,000
- 4. Advance Data Analytics and Visualization to Optimize Pathology Lab Utilization: Towards an Interactive Lab Utilization Dashboard for Primary Care**
 - **Funding:** NSHRF Catalyst Grant
 - **Role:** Co-applicant
 - **PI:** Syed Sibte Raza Abidi
 - **Amount:** \$50,000
- 5. Addressing rural and remote access disparities for patients with inflammatory arthritis through telehealth/videoconferencing and innovative inter-professional care models**
 - **Funding:** CIORA 2014
 - **Role:** Co-Investigator. Designed study evaluation and data gathering tools, helped with project design, will perform study analysis once complete
 - **PI:** Regina Taylor-Gjevre
 - **Amount:** \$100,000

5.2 RESEARCH GROUPS

- Canadian Network for Observation Drug Effect Studies (CNODES) KT Team, 2016-Present
- Pan-Canadian Real-world Health Data Network (PHRDN), March 2018-Present
- NICHE Research Group, 2009-Present

6 TEACHING EXPERIENCE

- **HINF 6102: HI Flow and Standards** (*Health Informatics, Dalhousie University, Winter 2015-Pres.*)
 - Exploring the technical and philosophical issues related to the capture and use of information in health care
 - Responsible for course design, lectures, and evaluation
- **HINF 6030: HI Statistics** (*Health Informatics, Dalhousie University, Fall 2010-2012, 2015-Pres.*)
 - Statistics requirement for Masters of Health Informatics students at Dalhousie.
 - Responsible for course design, lectures, evaluation and TA hiring and direction
- **CHE 5019: Principles of Biostatistics** (*Community Health & Epidemiology, Dalhousie University, Fall 2017-Pres.*)
 - Requirement for the Masters of Community Health & Epidemiology program
 - Co-offered with HINF6030, with the same requirements (design, lectures, evaluation)
- **Health Informatics Curriculum Redesign**
 - Participated in curriculum review for MHI program at Dalhousie University
 - Helped designed new curriculum with respect to pre-defined learning objectives

- **Community Health and Epidemiology Curriculum Redesign**
 - Participated in the curriculum review for the MCHC program at Dalhousie University
 - Helped design the new curriculum, particularly around the requirements for the 4 required classes (2 in biostatistics and 2 in epidemiology)
- **Guest Lecturer - Evidence Based Medicine (now Research in Medicine Program)** (*Department of Medicine, Medicine Year 1, Dalhousie University, Fall 2010 - 2012*)
 - Provided three lectures on statistical issues:
 - **Hypothesis Testing:** Basic lecture about the process of performing hypothesis tests in medical research
 - **Making Sense of Results: Common Statistical Tests:** A follow-up to the first lecture, this lecture covers the details of interpreting results, including p-values, power and error rate, interpreting regression, etc... Uses specific examples from the literature
 - **Survival Analysis** Explanation of the theory, methods and use of survival analysis
- **Guest Lecturer - Statistical Methods for Meta-Analyses** (*CH&E 6049 Systematic Review & Meta-Analysis, Dalhousie University, Winter of 2010, 2011, 2013, 2017*)
 - Provide basic introduction to the statistical methods used for the systematic review process
 - Lectures provided for *Cochrane Systematic Review Training Workshop* offered through NSHRF in Halifax, NS, Winter 2010.
- **Guest Lecturer – Department of Medicine Resident Lecture Program** (*University of Saskatchewan, 2013-2015*)
 - Provided two separate lectures each year on research design and data capturing methods

6.1 STUDENT SUPERVISING EXPERIENCE

6.1.1 Masters Supervision

1. Phillippe Tremblay, MCHC 2019. *The Effect of Left Ventricular Assist Devices (LVAD) on Pulmonary Hypertension*. Thesis Proposal is under development

6.1.2 Other Masters Thesis Support

2. Ghdeer Tashkandi, PhD, 2020. Committee Member. *A Personalized Pre-Anesthesia Patient Education Application for Improving Anesthesia Services at the Pre-Anesthesia Clinic with Respect to Patients' Needs*. Ghdeer has defended her proposal and is in the process of testing her system.
3. Eseoeh Imouokhome. MHI, 2017. Examining Committee. *Design and Evaluation of a Mobile Health Application for Falls Management in the Elderly*.
4. Natalie Parks. MCHC 2018. Internal Reviewer. *Comorbidity and Trends in Disease-Modifying Therapy for Relapsing Remitting Multiple Sclerosis*.
5. Sanja Jovanovic, MCHC 2018. Thesis defense chair and analytic support. *The provincial guidelines effect on risk-based access to cardiac catheterization in patients with non-ST elevation acute coronary syndromes in Nova Scotia (2003 – 2013)*

6.1.3 Other Student Supervision

6. Catherine Cox, RIM Student 2017, statistical support.
7. Samantha Jang Stewart, RIM Student 2017, statistical support.

8. Madeline Boeher, RIM Student 2016, statistical support.

7 AWARDS, DISTINCTIONS AND FELLOWSHIPS

- Canada Health Infoway Data Impact Challenge, runner-up, \$10,000
- 2013 Best Paper, 16th International Symposium on Health Information Management Research (ISHIMR 2013) (See publication note above)
- 2012 Steven Huesing Scholarship for top Canadian Graduate Student in Health Informatics
- 2010 Runner-up at MEDINFO2010 student paper competition (see publication note above)
- 2008 Received Associate Statistician certification from the Statistical Society of Canada
- 2006-2007 Made University of Waterloo Deans list for fall and winter terms
- 2003-2006 University of Kings College Presidents List, a period that spanned 6 terms
- 2006 Received a fellowship from the University of Waterloo, valued at approx. \$16,000
- 2006 CCAA National scholar award
- 2005-2006 Smith-Jackson Memorial Scholarship, \$1500
- 2004-2005 and 2005-2006 Academic all-Canadian for the Canadian Colleges Athletic Association

8 COMMUNITY INVOLVEMENT / ADMINISTRATIVE ACTIVITY

- COACH Member since 2012
- Statistical Society of Canada Member since 2008
- Founding president of the Dalhousie Health Informatics Society
- International Conference on Current and Future Trends of Information and Communication Technologies in Healthcare (ICTH) Technical Program Committee Member: 2013 and 2014