Sudipta Saha

Contact Information	9 Sun Avenue Toronto ON M1R3T9	email: sudip.saha@mail.utoronto.ca website: https://sahasud1.github.io/

Research Interests Causal Inference, Survival Analysis, Predictive Modeling.

Education

University of Toronto, Toronto, ON

Ph.D. Candidate, Biostatistics, *Expected:* Aug 2020

- Thesis Topic: *Causal Inference Methods for Secondary Analysis of Randomized Screening Trials*
- Supervisor: Olli Saarela, Ph.D

M.Sc., Biostatistics, Aug 2015

Ball State University, Muncie, IN

M.Sc., Mathematical Statistics, May 2013

- Thesis Topic: *A Comparative Analysis on Computational Methods for Fitting an Exponential Random Graph Model to Biological Network Data*
- Supervisor: Munni Begum, Ph.D

University of Dhaka, Dhaka, Bangladesh

M.Sc., Statistics, Feb 2010

B.Sc., Statistics, Aug 2008

Research Experience

Research Assistant Jun 2018 to present
Princess Margaret Cancer Centre,
Toronto, Canada
Supervisor: Norman Boyd, MD, DSc.

Practicum Student Oct 2016 to May 2017
Public Health Ontario,
Toronto, Canada
Supervisors: Lennon Li, Ph.D and Erin Hobin, Ph.D.

Student Analyst Jul 2015 to Sept 2015
Cancer Care Ontario,
Toronto, Canada
Supervisors: Amy Liu, Ph.D.

Practicum Student Oct 2014 to Apr 2015
Centre for Addiction and Mental Health (CAMH),
Toronto, Canada
Supervisors: Marcos Sanches, M.Sc.

Research Assistant May 2012 to Aug 2012
Title: Network motif identification and structure detection with graphical models,
Muncie, USA
Supervisors: Munni Begum, Ph.D.

Journal Publications

1. **Saha, S.**, Liu, A., & Saarela, O.S. 2018. Estimating case-fatality reduction from randomized screening trials. Epidemiologic Methods, 7(1) . DOI: 10.1515/em-2018-0007

2. **Saha, S.**, & Begum, M. 2015. A Comparative Analysis on Computational Methods for Fitting an Exponential Random Graph Model (ERGM) to Biological Network Data. *Network Biology*, 5(1), 1-12.

3. Begum, M., Bagga, J., Blakey, A. & **Saha, S**. 2014. Network motif identification and structure detection with graphical models. Network Biology, 14(4), 155-169.

Conference Presentations

1. **Saha, S.**, Liu, A., & Saarela, O.S. 2018. Causal Inference Methods for Secondary Analysis of Screening Trials. Statistical Society Canada 2018 Annual Meeting, McGill University, Montreal, Qubec, Canada.

2. **Saha, S.** & Sanches, M. 2015. Simulation on Area under the Curve (AUC) Methodology: Comparison between Summary Measures and Summary Statistics (Poster). Biostatistics Research Day, University of Toronto, Canada.

3. **Saha, S.**, Indralingam, M., Varu, A., Panna, Y., Kanwar, P., & Xiao, B. 2015. Analysis of Youth Unemployment Trend after 2008 Financial Crisis (Poster). Annual Meeting of the Statistical Society of Canada, Dalhousie University, Canada.

4. Soltanifar, M., Indraligam, M., Su, J., Varu, A., **Saha, S.**, & Xiao, B., 2015. A Meta-Analysis of Tiffeneau-Pinelli Spirometric Index in Men and Women: Does Race Matter? (Poster) Canadian Society for Epidemiology and Biostatistics Conference, Toronto, Canada.

5. **Saha, S.** Begum, M., Bagga, J. & Blakey, A. 2013. A Comparative Analysis on Computational Methods for Fitting an Exponential Random Graph Model to Biological Network Data (Poster). Annual Midwest Biopharmaceutical Statistics Workshop, Ball State University, USA.

6. **Saha, S.** 2010. Bivariate Exponential Distribution and Censoring. International Conference of Statistics, Dhaka University, Bangladesh.

Submitted Journal Publications

1. Noelting J, Gramlich L, Whittaker S, Armstrong D, Marliss E, Jurewitsch B, Boudreault M, Raman M, Duerksen D, Lou Wendy, **Saha S** & Allard J (2018). Long-term survival of patients with short bowel syndrome receiving home parenteral nutrition: results from the Canadian national registry. Submitted to *Clinical Gastroenterology and Hepatology*.

Manuscript Under Preparation

1. Martin L, **Saha S**, Linton L, Taylor M, Zhu J, Chavez S, Stanisz G, Dunn S, Minkin S & Boyd N (2018). Association of diet and breast tissue composition at age 15-18. In preparation.

Statistical Consultant

Consultant – Hannam Fertility Centre — Oct 2018 to present

- Developing models/algorithm for optimal follicle stimulating hormone (FSH) level which will maximize the oocyte (no. of eggs) yield in patients undergoing In Vitro Fertilization (IVF).
- Developing a R shiny application for illustration.

Consultant – Oxford County Public Health — Apr 2017 to Mar 2018

- Developed methodology and codes for calculating quality indicators in several statistical software (e.g. R, SAS, SPSS, STATA).
- Illustrated the logic of using flowcharts (details are available here).

Awards

Travel Awards

- Statistical Society Canada 2015 Annual Meeting, Halifax, Nova Scotia — June 2015
- Sweden-Bangladesh Travel Grant — May 2012

Academic Achievements

- University of Toronto Fellowship — Sept 2015 to Aug 2020
- Ball State Graduate Assistantship — Aug 2011 to May 2013
- Dr. Mir Masoom Ali Research Grant — Oct 2012
- Aspire Research Grant — May 2012

Student Awards – Ball State University

- Outstanding Teaching Assistant Award — Apr 2012 & 2013

Teaching Experience

Instructor – Ball State University — Fall 2012 & Spring 2013

- MATH 125 - Mathematics and Its Applications

Teaching Assistant – University of Toronto — Fall 2014 to present

Graduate courses:

- CHL5227H: Introduction to Statistical Methods for Clinical Trials
- CHL5210H: Categorical Data Analysis

Undergraduate course:

- STAB22: Statistics I
- STAB23: Introduction to Statistics for the Social Sciences
- STAB52: Introduction to Probability
- STAC51: Categorical Data Analysis

Voluntary Activities

Organizer of Career Session, Canadian Statistics Student Conference — May 2019

- Contacting the career panelist

Organizer of Career Session, Canadian Statistics Student Conference — Jun 2018

- Contacted the career panelist
- Moderated the career session

Volunteer, Biostatistics Research Day — May 2015 & 2016

- Assisted the organizers with registration, hospitality, student poster presentation.