

# Curriculum Vitæ

Sahir Rai Bhatnagar

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## 1 Identification

Name: Sahir Rai Bhatnagar  
Designations: Associate of the Society of Actuaries (ASA)  
Address: Lady Davis Institute for Medical Research  
Jewish General Hospital  
H483, Clinical Epidemiology  
3755 Côte Ste. Catherine  
Montréal, Québec H3T 1E2  
  
E-mail: sahir.bhatnagar@gmail.com  
Homepage: <http://sahirbhatnagar.com/>  
  
Citizenship: Canadian  
Languages: English, French, Hindi

## 2 Education

2013–present	Ph.D. (Biostatistics) McGill University, Montreal QC, Canada Passed Theoretical Comprehensive Exam, May 2014) Passed Applied Comprehensive Exam, May 2015) McGill Graduate Excellence Award \$18,000
2012–2013	Master of Science (Biostatistics) Queen’s University, Kingston ON, Canada MSc project title: Absolute risk estimation in a case cohort study of prostate cancer MSc Queen’s Graduate Studies Award \$20,000 (GPA 3.94/4.3)
2005–2008	Bachelor of Science (Actuarial Mathematics) Concordia University, Montreal QC, Canada

## 3 Professional Examinations

2011	Associate of the Society of Actuaries (ASA)
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## 4 Experience

2014	Teaching Assistant, McGill University Inferential Statistics (EPIB 607)
2012–2013	Teaching Assistant, Queen’s University Tutorial leader in calculus (MATH 121) Term and exam marker for numerical methods and actuarial mathematics
2012–2013	Research Assistant, McGill University Working with Dr. Andrea Benedetti in the Respiratory Epidemiology and Clinical Research Unit at McGill, where our research is focused on methods for correlated data, as well as developing an R package for the clustering of DNA fingerprint data
2008–2012	Actuarial Analyst, Aon Hewitt Preparation and verification of annual reports, financial reports, annual statements, valuation reports, budget projections, and pension costs for clients balance sheets. Responsible for translation of pension plan status to clients

## 5 Publications

1. Wang Y, Murphy O, Turgeon M, Wang ZY, Bhatnagar SR, Schulz J, and Moodie EEM (2015) The perils of Quasi-likelihood Information Criteria. Accepted in *Stat.*
2. Sun J., Bhatnagar SR, Oualkacha K, Ciampi A, Greenwood CMT (2015) Joint analysis of multiple blood pressure phenotypes in GAW19 data by using a multivariate rare-variant association test. Accepted in *BMC Proceedings*.
3. Bhatnagar SR, Greenwood CMT, Labbe A (2015) Assessing transmission ratio distortion in extended families: a comparison of analysis methods. Accepted in *BMC Proceedings*.
4. Bhatnagar SR, Atherton J, Benedetti A (2014). Comparing alternating logistic regressions to other approaches to modelling correlated binary data. *Journal of Statistical Computation and Simulation*. doi:10.1080/00949655.2014.916707

## 6 Presentations

\* indicates the person that gave the presentation

### 6.1 Invited conference/workshop presentations

2015/07/29	Bhatnagar SR: <a href="#">Atelier sur le logiciel en R: Un introduction à la programmation en R</a> . GERAD: Groupe d’études et de recherche en analyse, Université de Montréal. Sponsored by HEC Montréal.
2015/05/28	Bhatnagar SR: <a href="#">Reproducible Research: An introduction to knitr</a> . Department of Epidemiology, Biostatistics and Occupational Health, McGill University. Sponsored by the CRM Statistics Laboratory and the Montreal Biostatistics Seminar Series.
2015/04/19	Bhatnagar SR*, Houde A, Voisin G, Bouchard L, Blanchette M, Greenwood CMT: <a href="#">DNA methylation and Expression to predict childhood obesity</a> . 4th Annual Canadian Human and Statistical Genetics Meeting, Vancouver, Canada.
2013/05/13	Bhatnagar SR: <a href="#">Introduction to L<sup>A</sup>T<sub>E</sub>X</a> . Queen’s University, Department of Mathematics and Statistics.

## 6.2 Poster Presentations

2015/04/19	Bhatnagar SR*, Houde A, Voisin G, Bouchard L, Blanchette M, Greenwood CMT: <a href="#">Integrating DNA Methylation and Gene Expression data in Placenta Tissue to Predict Childhood Obesity</a> . 4th Annual Canadian Human and Statistical Genetics Meeting, Vancouver, Canada. <i>\$1,000 Award for Best Poster</i>
2014/08/24	Bhatnagar SR*, Greenwood CMT, Labbe A: <a href="#">Transmission Ratio Distortion in Extended Families</a> . Genetic Analysis Workshop 19, Vienna, Austria.
2014/08/25	Sun J, Bhatnagar SR*, Oualkacha K, Ciampi A, Greenwood CMT: <a href="#">Joint analysis of multiple blood pressure phenotypes in GAW19 data by using a multivariate rare-variant association test</a> . Genetic Analysis Workshop 19, Vienna, Austria.
2014/05/26	Bhatnagar SR*, McGregor K*, Turgeon M*: <a href="#">Effect of economy on TV time use</a> . 42nd Annual Meeting of the Statistical Society of Canada, Toronto, Ontario.

## 6.3 Seminar Presentations

2015/08/12	Bhatnagar SR: <a href="#">Introduction to knitr and R Markdown</a> . Montréal UseR Group, Notman House, Montréal.
2015/03/12	Bhatnagar SR: <a href="#">Imputing the Epigenome</a> . Lady Davis Institute, Montreal Jewish General Hospital.
2015/03/05	Bhatnagar SR: <a href="#">Making sense of Methylation &amp; Expression data in Cordblood and Placenta Tissues</a> . Lady Davis Institute, Montreal Jewish General Hospital.
2014/04/07	Bhatnagar SR: <a href="#">Estimation and Accuracy after Model Selection by Bradley Efron</a> . Department of Mathematics and Statistics, McGill University.
2014/01/23	Bhatnagar SR: <a href="#">Reproducible Research and Biostatistics</a> . Biostatistics Reading Group, McGill University.
2014/08/07	Bhatnagar SR*, Greenwood CMT, Labbe A: <a href="#">Transmission Ratio Distortion in Extended Families</a> . Lady Davis Institute, Montreal Jewish General Hospital.
2013/08/30	Bhatnagar SR: <a href="#">Absolute Risk Estimation in a Case Cohort Study of Prostate Cancer</a> . Department of Mathematics and Statistics, Queen's University.
2013/03/06	Bhatnagar SR: <a href="#">Colorectal Cancer Screening in Visible Minorities in Canada</a> . Department of Public Health Sciences, Queen's University.
2012/11/27	Bhatnagar SR: <a href="#">Computational Methods for the Case-Cohort Design</a> . Department of Public Health Sciences, Queen's University.

## 7 Technical Skills

R  
SAS  
L<sup>A</sup>T<sub>E</sub>X  
Microsoft Office suite  
Unix/Linux operating system, Bash Shell Script  
GitHub, Jekyll

## 8 Volunteer Experience

2010–Present	Math Teacher, Aditya Youth Trust Fund Teaching mathematics to a group of elementary and high school students who are financially under resourced. Motivate and inspire students to place a high value on education while promoting wholesome social involvement, and to encourage them to achieve their maximum potential
2011–2013	MAB - Mackay Rehabilitation Center Working with elderly patients diagnosed with Retinitis Pigmentosa. Accompaniment to perform everyday tasks that would be difficult to do independently such as grocery shopping, banking transactions, and outdoor activities