

SIMON BONNER

Department of Statistics and Actuarial Science
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EDUCATION

- Ph.D. Statistics, Simon Fraser University** Sep 2004 – Present
Topic: Bayesian Analysis of Mark-Recapture Data
Supervisor: Dr. Carl Schwarz
Expected Graduation Date: December, 2007
- M.Sc. Statistics, Simon Fraser University** Sep 2001 – Apr 2003
Topic: Incorporation of Continuous Covariates into the Cormack-Jolly-Seber Mark-Recapture Model
Supervisor: Dr. Carl Schwarz
- B.Sc. Hons. Mathematics, McGill University** Sep 1997 – Apr 2001
Topic: Detection of Changes in Brain Morphology using Multiple MRI
Supervisors: Dr. Keith Worsley and Dr. D. Louis Collins

RESEARCH EXPERIENCE

- Statistical Consultant** Jan 2005 – Aug 2006
Statistical Consulting Service, Department of Statistics and Actuarial Science, Simon Fraser University
- Statistical Analyst** Sep 2003-Sep 2004
BC Centre for Excellence in HIV/AIDS, St. Paul's Hospital
- Research Assistant** Apr 2003- Aug 2003
Department of Statistics and Actuarial Science, Simon Fraser University
- Research Assistant** Sep 2000 – Aug 2001
Brain Imaging Centre, Montreal Neurological Institute
- NSERC Undergraduate Summer Research Assistant** May 2000 – Aug 2000
Department of Mathematics and Statistics, McGill University
- Field Research Assistant** May 1999 – Aug 2000
Department of Biology, University of Missouri at Columbia
- Volunteer Field Ornithologist** May 1998 – Sep 1998
Long Point Bird Observatory

TEACHING EXPERIENCE

Sessional Instructor

Department of Statistics and Actuarial Science, Simon Fraser University
STAT450 – Statistical Theory Sept – Dec 2005
STAT101 – Introduction to Statistics Apr – Aug 2003

Teaching Assistant

Department of Statistics and Actuarial Science, Simon Fraser University
Statistics Workshop Sept 2001 – Apr 2002
STAT350 – Linear Models in Applied Statistics May – Aug 2001
STAT430 – Statistical Design and Analysis of Experiments Sept – Dec 2002
STAT403 – Intermediate Sampling and Experimental Design Sept – Dec 2004
STAT650 – Quantitative Analysis in Resource Management and Field Biology Sept – Dec 2004

SCHOLARSHIPS AND AWARDS

MITACS Internship, Simon Fraser University and Rescan Environmental Services Apr 2007 – Aug 2007
NSERC CGSB, Simon Fraser University Apr 2005 – Apr 2007
Scott Paper Limited Bicultural Graduate Entrance Fellowship, Simon Fraser University Sep 2004 – Sep 2005
Special Graduate Entrance Scholarship, Simon Fraser University Sep 2004 – Sep 2005
NSERC PGSA-1, Simon Fraser University May 2002 – Apr 2003
Graduate Fellowship Award, Simon Fraser University May 2002
Graduate Entrance Scholarship, Simon Fraser University Sep 2002
NSERC USRA, McGill University May 2000
James McGill Scholarship, McGill University Sep 1997 – Apr 2001

WORKSHOPS AND COURSES ATTENDED

Program MARK Workshop June 2005
Department of Fishery and Wildlife, Colorado State University
Certificate Program in University Teaching and Learning Sep 2004 – Apr 2005
Learning and Instructional Development Centre, Simon Fraser University
Instructional Skills Workshop Apr 2003
Learning and Instructional Development Centre, Simon Fraser University

SERVICE ACTIVITIES

Web Designer

4th SFU/UBC Joint Student Statistics Workshop Nov 2006
2nd SFU/UBC Joint Student Statistics Workshop Nov 2005

Chair

Statistics and Actuarial Science Graduate Student Caucus, SFU Sep 2002-Aug 2003, Sep 2004-Aug 2005

REFEREED PUBLICATIONS

- Lampinen, TM, Bonner, SJ, Rusch, M, and Hogg, RS. (2007) High Prevalence of Smoking Among Urban-Dwelling Canadian Men Who Have Sex with Men. *Journal of Urban Health*. 83(6): 1143-1150.
- Hogg RS, Bangsberg DR, Lima VD, Alexander C, Bonner S, Yip B, Wood E, Dong WW, Montaner JS, Harrigan PR. (2006) Emergence of Drug Resistance Is Associated with an Increased Risk of Death among Patients First Starting HAART. *PLoS Med*. 3(9) [E-publication ahead of print]
- Bonner, SJ and Schwarz, CJ. (2006) An extension of the Cormack-Jolly-Seber model for continuous covariates with application to *Microtus pennsylvanicus*. *Biometrics*. 62(1): 142-149.
- Bonner, SJ and Schwarz, CJ. (2004) Continuous Time-Dependent Individual Covariates and the Cormack-Jolly-Seber Model. *Animal Biodiversity and Conservation*. 27: 149-155.
- Wood, E, Hogg, RS, Bonner, S, Kerr, T, Li, K, Palepu, A, Guillemi, S, Schechter, MT, Montaner, JSG. (2004) Staging for Anti-Retroviral Therapy among HIV-infected Drug Users. *Journal of the American Medical Association*. 292: 1175a-1177a.

SUBMITTED PUBLICATIONS

- Bonner, SJ, Thomson, D, and Schwarz, CJ. (2007) Time-Varying Covariates and Semi-Parametric Regression in Capture-Recapture: an Adaptive Spline Approach. *Ecological and Environmental Statistics*. (Under Review)
- Gimenez, O, Bonner SJ, King R, Parker, RA, Brooks, SP, Jamieson, LE, Grosbois, V, Morgan, BJT, Newson, S, and Thomas, L. (2007) WinBUGS for Population Ecologists: Bayesian Modeling using Markov Chain Monte Carlo (MCMC) methods. *Ecological and Environmental Statistics*. (Under Review)

CONFERENCE PRESENTATIONS

- Bonner, SJ, Thompson, DT, and Schwarz, CJ. (2007) Time-Varying Covariates and Semi-Parametric Regression in Capture-Recapture: an Adaptive Spline Approach. 2007 EURING Technical Meeting, Dunedin, New Zealand.
- Bonner, SJ and Schwarz, CJ. (2003) Continuous Individual Time-Dependent Covariates in the Cormack-Jolly-Seber Model 2003 EURING Technical Meeting, Radolfzell, Germany.

POSTERS AND OTHER CONTRIBUTIONS

- Bonner, SJ, King, R, and Morgan, BJT. (2007) Comparison of Methods for Incorporating Covariates in Mark-Recapture-Recovery Analysis. Poster at 2007 EURING Technical Meeting. Dunedin, New Zealand, January 21-28, 2007.
- Gimenez, O, Bonner SJ, King R, Parker, RA, Brooks, SP, Jamieson, LE, Grosbois, V, Morgan, BJT, Newson, S, and Thomas, L (2007) Assessing Population Dynamics using WinBUGS. Computing Workshop at 2007 EURING Technical Meeting.. Dunedin, New Zealand, January 21-28, 2007.
- Bonner, SJ. (2006) Time-dependent Covariates in Mark-Recapture. Presentation at 3rd SFU/UBC Joint Student Statistics Workshop, University of British Columbia. Vancouver, May 24, 2006.
- Bonner, SJ, Rusch, M, Lampinen, TM, Miller, ML, Devlin, B, Hogg, RS. (2004) Smoking Behaviour Among Men Who Have Sex with Men. Poster at 13th Annual Canadian AIDS/HIV Research Conference. Montreal, May 13-16, 2004.

- Bonner, SJ, Hogg, RS, Geller, J, Yip, B, Gataric, N, Montaner, JSG. (2004) Concordance Between Two Measures of Adherence to Anti-Retroviral Therapy. Poster at 13th Annual Canadian AIDS/HIV Research Conference. Montreal, May13-16, 2004.
- Guillemi, S, Alexander, CS, Bonner, S, Ting, L, Harris, M, Harrigan, PR, Montaner, JSG.(2004) Lopinavir Through Concentration Remains Consistent for Adult Patients Regardless of Age. Poster at13th Annual Canadian AIDS/HIV Research Conference. Montreal, May13-16, 2004.
- Harris, M, Zalunardo, N, Bonner, S, Werb, R, Valyi, M, Montaner, JSG. (2004) Use of Estimated Glomerular Filtration Rate (GFR) to Predict Renal Toxicity in Patients Receiving Tenofovir DF (TDF). Poster at11th Conference on Retroviruses and Opportunistic Infections. San Francisco, CA, USA, February 8-11, 2004.
- Harris, M, Alexander, C, Bonner, S, Ting, L, McNabb, K, Harrigan, PR, Montaner, JSG. (2004) Soft Gel and Hard Gel Formulations Offer Similar Exposure to Saquinavir in Ritonavir-boosted Regimens. Poster at 5th International Workshop on Clinical Pharmacology of HIV Therapy. Rome, Italy, March 11-13, 2004.
- Harris, M, Alexander, C, Bonner, S, Ting, L, McNabb, K, Harrigan, PR, Montaner, JSG. (2004) Soft Gel (SGC) and Hard Gel (HGC) Formulations Offer Similar Exposure to Saquinavir (SQV) in Ritonavir (RTV)-boosted Regimens. Poster at 13th Annual Canadian AIDS/HIV Research Conference. Montreal, May13-16, 2004.
- Hogg RS, Bonner SJ, Daniel M, Harrigan PR, Yip B, Braitstein P, Wood E, Montaner JSG. (2004) Impact of Depression on All Cause Mortality among Men and Women Initiating HAART. Presentation at 15th International AIDS Conference, Bangkok, July 11-16, 2004.
- Bonner, SJ. (2005) An Introduction to Capture-Recapture. Presentation at 1st SFU/UBC Joint Student Statistics Workshop, University of British Columbia. Vancouver, May 13, 2005.

OTHER RESEARCH ACTIVITIES

During my PhD I have refereed papers for the following journals:

- Biometrics
- Ecological and Environmental Statistics
- Journal of Applied Ecology
- Journal of Field Ornithology
- Journal of Wildlife Management
- North American Journal of Fisheries Management