

# List of Publications (Updated: September 16, 2013)

## Peer Reviewed Articles

- Bonner, S.J. and Schofield, M. (2013). MC(MC)MC: Exploring Monte Carlo integration within MCMC for mark-recapture models with individual covariates. *Methods in Ecology and Evolution*, In press.
- Bonner, S.J. and Holmberg, J.A. (2013). Mark-recapture with multiple non-invasive marks. *Biometrics*. In press.
- Bonner, S.J., Newlands, N., and Heckman, N.E. (2013). Modeling regional impacts of climate teleconnections using functional data analysis. *Environmental and Ecological Statistics*. In press.
- Bonner, S.J. (2013). Response to: A new method for estimating animal abundance with two sources of data in capture-recapture studies. *Methods in Ecology and Evolution*, 4(6):585–588.
- Chamberlain, J.L., Ness, G., Small, C.J., Bonner, S.J., and Hieber, E.B. (2013). Modeling below-ground biomass to improve sustainable management of *actaea racemosa*, a globally important medicinal forest product. *Forest Ecology and Management*, 293(1):1–8.
- Bonner, S.J. (2013). Implementing the trinomial mark-recapture-recovery model in Program MARK. *Methods in Ecology and Evolution*, 4(1):95–98.
- Bonner, S.J. and Schwarz, C.J. (2011). Smoothing population size estimates for time-stratified mark-recapture experiments using Bayesian p-splines. *Biometrics*, 67(4):1498–1507.
- Bonner, S.J., Morgan, B.J.T., and King, R. (2010). Continuous, time-varying covariates in mark-recapture-recovery analyses: A comparison of methods. *Biometrics*, 65(4):1256–1265.
- Calvert, A., Bonner, S.J., Jonsen, I., Flemming, J., Walde, S., and Taylor, P. (2009). A hierarchical Bayesian approach to multi-state mark-recapture: Simulations and applications. *Journal of Applied Ecology*, 46:610–620.
- Bonner, S.J., Thomson, D.L., and Schwarz, C.J. (2008). Time-varying covariates and semi-parametric regression in capture-recapture: An adaptive spline approach. In D.L. Thomson, E.G. Cooch, and M.J. Conroy (eds.), *Modelling Demographic Processes in Marked Populations*, vol. 3 of *Environmental and Ecological Statistics*, pp. 657–676. Springer, New York. Proceedings of the 8th EURING Technical Meeting.
- Gimenez, O., Bonner, S.J., King, R., Parker, R.A., Brooks, S.P., Jamieson, L.E., Grosbois, V., Morgan, B.J.T., and Thomas, L. (2008). WinBUGS for population ecologists: Bayesian modeling using Markov chain Monte Carlo methods. In D.L. Thomson, E.G. Cooch, and M.J. Conroy (eds.), *Modelling Demographic Processes in Marked Populations*, vol. 3 of *Environmental and Ecological Statistics*, pp. 883–916. Springer, New York. Proceedings of the 8th EURING Technical Meeting.
- Lampinen, T.M., Bonner, S.J., Rusch, M., and Hogg, R.S. (2007). High prevalence of smoking among urban-dwelling Canadian men who have sex with men. *Journal of Urban Health*, 83(6):1143–1150.
- Bonner, S.J. and Schwarz, C.J. (2006). An extension of the Cormack-Jolly-Seber model for continuous covariates with application to *Microtus pennsylvanicus*. *Biometrics*, 62(1):142–149.
- Hogg, R.S., Bangsberg, D.R., Lima, V.D., Alexander, C., Bonner, S., Yip, B., Wood, E., Dong, W.W., Montaner, J.S.G., and Harrigan, P.R. (2006). Emergence of drug resistance is associated with an increased risk of death among patients first starting HAART. *PLoS Medicine*, 3(9):e356.

Bonner, S.J. and Schwarz, C.J. (2004). Continuous time-dependent individual covariates and the Cormack-Jolly-Seber model. In J.C. Senar, A. Dhont, and M.J. Conroy (eds.), *Animal Biodiversity and Conservation*, vol. 27. Proceedings of the 7th EURING Technical Meeting.

Wood, E., Hogg, R.S., Bonner, S., Kerr, T., Li, K., Palepu, A., Guillemi, S., Schechter, M.T., and Montaner, J.S.G. (2004). Staging for anti-retroviral therapy among HIV-infected drug users. *Journal of the American Medical Association*, 292:1175a–1177a.

## Book Reviews

Bonner, S.J. (2011). Review of *Bayesian Analysis for Population Ecology* by King, R., Morgan, B.J.T., Gimenez, O., and Brooks, S. *Biometrics*, 67(4):1675–1676.

## Non Refereed Publications

Zala, C., Alexander, C.S., Ochoa, C., Guillemi, S., Ting, L.S., Bonner, S., Cahn, P., Harrigan, P.R., and Montaner, J.S.G. (2005). Comparable pharmacokinetics of generic Indinavir (Inhibisam) versus brand Indinavir (Crixivan) when boosted with Ritonavir. *Journal of Acquired Immune Deficiency Syndromes*, 38(1):363–364. Letter to the Editor.

## Invited Presentations

Bonner, S.J. and Schofield, M.R. (2013). MC(MC)MC: Inference for heterogeneous populations via MC within MCMC. *EURING Analytical Meeting & Workshop*. Athens, GA.

Bonner, S.J. and Holmberg, J.A. (2012). Mark-recapture of whale sharks with multiple non-invasive marks: a Bayesian approach. *University of Toronto*. Toronto, ON.

Bonner, S.J. and Holmberg, J.A. (2012). Mark-recapture of whale sharks with multiple, natural marks. *University of Louisville*. Louisville, KY.

Bonner, S.J. and Holmberg, J.A. (2012). Mark-recapture of whale sharks with multiple, natural marks. *International Biometrics Conference*. Kobe, Japan.

Bonner, S.J. and Schwarz, C.J. (2011). Bayesian estimation of abundance for open populations with covariate dependent capture probabilities. *Dalhousie University*. Halifax, NS.

Ness, G., Bonner, S.J., and Chamberlain, J. (2011). Modeling the relationship between below ground and above ground biomass of black cohosh. *Radford University*. Radford, VA (Presented by G Ness).

Bonner, S.J. and Schwarz, C.J. (2011). Advances in modelling time-stratified mark-recapture data from salmon outmigrations via Bayesian p-splines. *39th Annual Meeting of the Statistical Society of Canada*. Wolfville, NS.

Bonner, S.J., Newlands, N., and Heckman, N. (2010). Functional data modelling of climate trends in British Columbia. *Functional Data Analysis: Future Directions*. Banff, AB.

Bonner, S.J. and Schwarz, C.J. (2009). Bayesian estimation of abundance for open populations with covariate dependent capture and survival probabilities. *University of Victoria*. Victoria, BC.

Bonner, S.J. and Schwarz, C.J. (2008). Application of Bayesian p-splines to the stratified two-stage capture-recapture study. *University of British Columbia*. Vancouver, BC.

## Conference Presentations

Bonner, S. and Holmberg, J. (2013). Application of the latent multinomial model to data from multiple non-invasive marks. *ENAR Spring Meeting*. Orlando, FL.

Bonner, S., Newlands, N., Qian, B., and Heckman, N. (2010). Functional data analysis of the trends and predictors of climate in British Columbia. *Joint Statistical Meetings*. Vancouver, British Columbia.

Bonner, S., Newlands, N., Qian, B., and Heckman, N. (2010). Functional data analysis of the trends and predictors of climate in British Columbia. *IMS New Researchers Conference*. Vancouver, British Columbia.

Bonner, S.J. and Schwarz, C.J. (2009). Bayesian estimation of abundance for open populations with covariate dependent capture and survival probabilities. *9th EURING Technical Meeting*. Pescara, Italy.

Bonner, S.J. and Schwarz, C.J. (2008). Hierarchical Bayesian modelling of two-stage capture-recapture experiments. *Joint Meeting of the Statistical Society of Canada and the Société Française de Statistique*. Ottawa, Ontario.

Bonner, S.J. and Schwarz, C.J. (2007). Bayesian smoothing of the stratified-Petersen model. *WNAR/IMS Annual Meeting*. Irvine, California.

Bonner, S.J., Thomson, D.T., and Schwarz, C.J. (2007). Time-varying covariates and semi-parametric regression in capture-recapture: an adaptive spline approach. *8th EURING Technical Meeting*. Dunedin, New Zealand.

Bonner, S.J. and Schwarz, C.J. (2003). Continuous individual time-dependent covariates in the Cormack-Jolly-Seber model. *7th EURING Technical Meeting*. Radolfzell, Germany.

## Technical Reports

Ness, G. and Bonner, S.J. (2012). Modeling the relationship between below ground and above ground biomass of black cohosh. Technical report, Dr. Jim Chamberlain, U.S. Forest Service.

Bonner, S.J. and Schwarz, C.J. (2011). A spline-based capture-mark-recapture model applied to estimating the number of Steelhead within the Bulkley River passing the Moricetown canyon in 2001-2010. Technical report, BC Ministry of Environment.

Bonner, S.J. (2010). Functional data analysis of the trends and predictors of climate in British Columbia. Technical report, Agriculture and Agri-Food Canada.

Bonner, S.J. (2008). The stratified-Petersen experiment: Effects of heterogeneity by strata on the estimate of run size and its variance. Technical report, BC Hydro.

Bonner, S.J. and Schwarz, C.J. (2008). Analysis of variability in water quality, sediment quality, and abundance of benthic organisms in two lakes of the Koala watershed. Technical report, Rescan Environmental Services Ltd.

Bonner, S.J. (2006). Analysis of the effects of 11 chemicals on wireworm mortality. Technical report, Pacific Agri-Food Research Centre.

## Posters

- Augustine, B.C., Tredick, C.A., and Bonner, S.J. (2013). Accounting for behavioral variation in closed population models with missing data. *EURING Analytical Meeting & Workshop*. Athens, GA.
- Ness, G., Chamberlain, J., Bonner, S., and Small, C. (2011). Modeling the relationship between below ground and above ground biomass of black cohosh. *2nd Annual University of Kentucky Environmental Research Showcase*. Lexington, Kentucky, USA.
- Bonner, S.J., King, R., and Morgan, B.J.T. (2007). Comparison of methods for incorporating covariates in mark-recapture-recovery analysis. *8th EURING Technical Meeting*. Dunedin, New Zealand.
- Bonner, S., Rusch, M., Lampinen, T.M., Miller, M.L., Devlin, B., and Hogg, R.S. (2004). Smoking behaviour among men who have sex with men. *13th Annual Canadian AIDS/HIV Research Conference*. Montreal, Quebec.
- Bonner, S.J., Hogg, R.S., Geller, J., Yip, B., Gataric, N., and Montaner, J.S. (2004). Concordance between two measures of adherence to anti-retroviral therapy. *13th Annual Canadian AIDS/HIV Research Conference*. Montreal, Quebec.
- Guillemi, S., Alexander, C.S., Bonner, S., Ting, L., Harris, M., Harrigan, P.R., and Montaner, J.S. (2004). Lopinavir trough concentration remains consistent for adult patients regardless of age. *13th Annual Canadian AIDS/HIV Research Conference*. Montreal, Quebec.
- Harris, M., Alexander, C., Bonner, S., Ting, L., McNabb, K., Harrigan, P.R., and Montaner, J.S.G. (2004). Soft gel and hard gel formulations offer similar exposure to Saquinavir in Ritonavir-boosted regimens. *5th International Workshop on Clinical Pharmacology of HIV Therapy*. Rome, Italy.
- Harris, M., Zalunardo, N., Bonner, S., Werb, R., Valyi, M., and Montaner, J.S. (2004). Use of estimated glomerular filtration rate (GFR) to predict renal toxicity in patients receiving Tenofovir DF (TDF). *11th Conference on Retroviruses and Opportunistic Infections*. San Francisco, California.