

Curriculum Vitae

Crystal D. Linkletter, Ph.D.

Assistant Professor (Biostatistics)
Community Health

ADDRESS

Center for Statistical Sciences
Box G-S121-7
Brown University
Providence, RI 02912
Tel: 401.863.6321
Fax: 401.863.9182
Email: cdlinkle@stat.brown.edu

EDUCATION

2000 B.Sc.H. Mathematics and Statistics Acadia University, Wolfville, NS
2003 M.Sc. Statistics Simon Fraser University, Burnaby, BC
2007 Ph.D. Statistics Simon Fraser University, Burnaby, BC

Dissertation: *Spatial Process Models for Social Network Analysis*
Advisor: Randy Sitter

ACADEMIC APPOINTMENTS

2007 – **Assistant Professor** (Tenure track)
Department of Community Health, Brown University

OTHER PROFESSIONAL POSITIONS

2001 – 2002 **Consultant**, QuestAir Technologies, Inc., Burnaby, BC
2003 – 2006 **Research Assistant** (multiple visits), Los Alamos National
Laboratory, Los Alamos, NM

PUBLICATIONS

A. Refereed journal articles

1. Linkletter, C., Bingham, D., Hengartner, N., Higdon, D. and Ye, K.Q. (2006). Variable selection for Gaussian process models in computer experiments. *Technometrics*, **48**, 478-490.
2. Linkletter, C.D. and Sitter, R.R. (2007). Predicting natural gas production in Texas: an application of nonparametric reporting lag distribution estimation. *Journal of Official Statistics*, **23**, 239-251.

B. Non-refereed technical reports and proceedings

1. Linkletter, C., Bingham, D., Sitter, R., Ye, K., Hengartner, N. and Higdon, D. (2003). Comparing designs of experiments for screening and prediction in computer experiments. Technical Report LA-UR-03-8524 Los Alamos National Laboratory
2. Linkletter, C., Bingham, D., Sitter, R., Ye, K., Hengartner, N. and Higdon, D. (2003). Screening and prediction in computer experiments. Proceedings of the Joint Army, Navy, NASA, Air Force Subcommittee on Modeling and Simulations, Colorado Springs, CO.

C. Invited lectures

1. April 2003. 'An alternative natural gas production estimation procedure.' Spring Meeting of the American Statistical Association Committee on Energy Statistics with the Energy Information Administration, Washington, DC.
2. July 2004. 'Variable selection for Gaussian process models in computer experiments.' National Program on Complex Data Structures/SAMSI Workshop on the Design and Analysis of Computer Experiments for Complex Systems, Banff, AB.
3. June 2005. 'Expected number of follow-up runs and cost for two-level fractional factorial designs.' Statistical Society of Canada Meeting, Saskatoon, SK.
4. September 2006. 'Variable selection for Gaussian process models.' Workshop for the Statistical and Applied Mathematical Sciences Institutes (SAMSI) Program on Development, Assessment, and Utilization of Complex Computer Models, Research Triangle Park, NC.

5. September 2006. 'From computer experiments to social networks: fun with spatial process models.' Bell Labs, Murray Hill, NJ.
6. June 2007. 'Latent socio-spatial process model for social networks.' Statistical Society of Canada Meeting, St. John's, NF.

D. Papers in progress

1. Linkletter, C. and Sitter, R. Latent socio-spatial process models for social network analysis.
2. Linkletter, C., Sitter, R. and Tang, B. Expected number of follow-up runs for two-level fractional factorial designs.
3. Lin, C., Linkletter, C., Lu, W., Ranjan, P., Bingham, D., Lockhart, R. and Loughin, T. Compliance testing for random effects models with multiple acceptance criterion.

E. Contributed abstracts presented

1. October 1999. 'Parametric and nonparametric approaches to cyclic designs.' Atlantic Provinces Council on the Sciences Mathematics, Statistics and Computer Science Conference, St. John's, NF.
2. July 2003. 'Prediction and screening in computer experiments' (poster). Institute of Mathematical Sciences and International Society for Bayesian Analysis Joint Meeting, San Juan, Puerto Rico.
3. May 2006. 'Compliance testing for random effects models with joint acceptance criterion.' Statistical Society of Canada Meeting, London, ON.
4. June 2007. 'Variable selection for Gaussian process models in computer experiments' (poster). Statistical Society of Canada Meeting, St. John's, NF.

PROFESSIONAL SERVICE

2002 – **Peer Review Service.** *Journal of the Royal Statistical Society (Series C), Statistics and Computing, Technometrics*

ACADEMIC HONORS AND AWARDS

| | |
|-------------|--|
| 2000 | University Scholar, Acadia University |
| 2000 | University Medal in Mathematics and Statistics, Acadia University |
| 2000 | Chipman Medal, Acadia University |
| 2000 – 2002 | Natural Science and Engineering Research Council of Canada Scholarship |
| 2002 | Graduate Fellowship, Simon Fraser University |
| 2002 | American Statistical Association/Energy Information Administration Fellowship |
| 2003 | C.D. Nelson Memorial Scholarship, Simon Fraser University |
| 2003 – 2004 | Natural Science and Engineering Research Council of Canada Scholarship |
| 2005 | Graduate Fellowship, Simon Fraser University |
| 2006 | Graduate Fellowship, Simon Fraser University |

UNIVERSITY TEACHING (enrollment)

FA 2006 STAT 101 (~130) Introduction to Statistics, Simon Fraser University