

Trent L. Lalonde

Position: Assistant Professor
Applied Statistics and Research Methods
College of Education and Behavioral Sciences
University of Northern Colorado
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- **Office:** (970) 351-2701
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Education: 2009
Ph.D.
Arizona State University, Tempe, AZ
Statistics

Professional Academic: 2009-Present
University of Northern Colorado, Greeley, CO
Assistant Professor

Area of Specialization: Generalized Linear Models and Non-Normal Response

Research Areas/ Interests: Generalized Linear Models, Clustered and Longitudinal Data, Binary Responses, Random Effect Models, Missing Data

Publications: Juried:

Troxler, S., Lalonde, T. L., and Wilson, J. R. Exact Logistic Models for Nested Binary Data. *Statistics in Medicine*, IN PRESS.

Chan, S., Dochtermann, A., Foisy, J., Hespen, J., Kunz, E., Lalonde, T., Loney, Q., Sharrow, K., and Thomas, N. (2004). Graphs With Disjoint Links in Every Spatial Embedding. *Journal of Knot Theory and Its Ramifications*, 13(6): 737-748.

Non-Juried:

Lalonde, T. L. 2010. A Power Analysis of Misspecified Types of Time-Varying Covariates for Generalized Method of Moments Applied to Binary Responses. In *JSM Proceedings*, Statistical Computing Section, Binary Data Session. Alexandria, VA: American Statistical Association.

Professional Presentations:

August 3, 2010, Joint Statistical Meetings Session 353, "Generalized Method of Moments for Binary Data", Vancouver, BC

July 31, 2008, Joint Statistical Meetings, "Multilevel Overdispersion in Hierarchical Generalized Linear Models", Denver, CO

July 30, 2007, Joint Statistical Meetings, "Use of Hierarchical Generalized Linear Models for Overdispersion", Salt Lake City, UT

Funded Projects:

Professional Consultation:

2010, Assisted Dr. Mark Thomas, Biology, with nonparametric options for analysis of resonant frequencies in stimulated nerve cells.

2010, Assisted Brent Peterson with multiple imputation for a multiple regression analysis of fatigue in cancer patients.

2010, Assisted Cassie Comeau with the design of the quantitative portion of her dissertation assessing connectedness to nature.

2010, Assisted Dr. David Gilliam with clustered non-normal analysis of ethanol treatments.

2010, Assisted Lamar Reams with advice on using SAS and SPSS for general linear modeling.

2010, Assisted Kim Hosler with advice on reviewer comments for a paper comparing text-message responses.

2010, Assisted Traci Parry, Exercise Science, UNC, with a missing-data multiple ANOVA analysis of data pertaining to exercise programs for cancer patients

2010, Assisted Dr. Bryan Smith, Applied Linguistics, ASU, with analysis of clustered data for ESL correction methods

2010, Assisted Katie Burakowski, Exercise Science, UNC, with analysis of a student-athlete survey pertaining to recruitment

factors

2010, Assisted Corina Brown, Chemistry Education, UNC, with the design of a pre / post study of teaching methods

2010, Assisted Amy Dreier, Counseling Psychology, UNC, with analysis suggestions for a study of marital satisfaction after treatment

2009, Assisted Megan Frazer, DVM, Dermatology for Animals, with analysis of data from a study of Sebaceous Adenitis in Havanese Canines

2009, Assisted Rachel Finan, Audiology, UNC, with a case study of vocalization technology

2009, Assisted Stephanie Greufe, Exercise Science, UNC, with a missing-data multiple ANOVA analysis of data pertaining to exercise programs for cancer patients

2009, Assisted Tracy Parry, Exercise Science, UNC, with a missing-data multiple ANOVA analysis of data pertaining to exercise programs for cancer patients

2009, Assisted Kim Hosler, Educational Technology, UNC, with interpretation of ANOVA for text-messaging communication data

2009, Assisted Brent Peterson, Exercise Science, UNC, with a MANOVA design and power analysis for a study of exercise regimens

2009, Assisted Jackie Tobin, Audiology and Speech-Language Sciences, UNC, with revising a survey regarding educational audiology opinions

2009, Assisted Sarah Wilson, CEBS, UNC, with a power analysis for a multi-factor ANOVA and chi-squared tests

2009, Assisted Jackie Campbell, DVM, Dermatology for Animals, with analysis of data from a study of canine Malassezia Fungal Flora

2009, Assisted Dr. Bryan Smith, Applied Linguistics, ASU, with clustered analysis of data pertaining to second language learning and conversational corrections; resulted in publication of Smith, B. and Sauro, S. (2009). Interruptions in Chat. *Computer Assisted Language Learning*, 22(3): 229-246.

2009, Assisted Hugo Beraldi-Campesi, Geochemistry, with nonparametric analysis of soil crust characteristics in various desert locations; resulted in publication of Beraldi-Campesi, H., Hartnett, H. E., Anbar, A., Gordon, G. W., and Garcia-Picel, F. (2009). Effect of biological soil crusts on soil elemental concentrations: implications

for biogeochemistry and traceable biosignatures of ancient life on land. *Geobiology*, 7: 348-359.

Professional Association Participation:

American Statistical Association (2006-Present)

American Public Health Association (2008-Present)

Community Service:

August 5, 2010

Joint Statistical Meetings Session Chair, Session Number 635, "Topics in Statistical Distributions"

Vancouver, BC

University Service:

October 13, 2010

ASRM Colloquium, "Logistic Regression for Small Sample Clustered Data"

CEBS, UNC

September 2, 2010

Center for the Enhancement of Teaching and Learning (CETL) lecture, "Scaffolded Lectures"

CEBS, UNC

Fall 2009 – Fall 2010

Faculty Coordinator, STAT 150

Applied Statistics and Research Methods

CEBS, UNC

Fall 2009 – Fall 2010

Curriculum Committee

CEBS, UNC

September 30, 2009

ASRM Colloquium, "Generalized Linear Models and Dispersion Corrections"

CEBS, UNC

Graduate Student Committees:

Teaching:

2010, Assistant Professor, Applied Statistics and Research Methods, UNC

Introduction to Graduate Research (SRM 600), Statistical Methods I (SRM 602), Statistical Methods II (SRM 603), Applied Statistics (SRM 502), Linear Model Theory (SRM 614), Introduction to R Programming (SRM 641),

various apprenticeships and independent studies

Courses Developed: Introduction to R Programming

2009, Assistant Professor, Applied Statistics and Research Methods,
UNC

Statistical Methods II (SRM 603), Applied Statistics (SRM 502)

2009, Graduate Assistant , School of Mathematical and Statistical
Sciences, Arizona State University

Elements of Statistics (STP 226)

**Professional
Development
Activities:**

April 28, 2010: AERA Workshop, "How to Get Published: Guidance from
Emerging and Senior Scholars"

April 13, 2010: UNC OSP Workshop, "Write Winning Grants"

**Honors and
Awards:**