

# Trent L. Lalonde

## Professional Positions

- Associate Professor (2014 - Present)  
Applied Statistics and Research Methods  
University of Northern Colorado
- Statistician (2012 - Present)  
UNC Cancer Rehabilitation Institute  
(Formerly Rocky Mountain Cancer Rehabilitation Institute)  
University of Northern Colorado
- Biostatistician (2012 - Present)  
Research Department / Nursing Research Committee  
Medical Center of the Rockies
- Director (2013 - 2017)  
Research Consulting Lab  
University of Northern Colorado
- Assistant Professor (2009 - 2014)  
Applied Statistics and Research Methods  
University of Northern Colorado

## Education

- PhD, Statistics, August 2009, School of Mathematical and Statistical Sciences, Arizona State University  
  
Dissertation: *Components of Overdispersion in Hierarchical Generalized Linear Models*  
Chair: Jeffrey R. Wilson
- Master of Arts, Mathematics (Applied Mathematics), May 2004, Department of Mathematics, University of Wisconsin - Madison
- Bachelor of Science, Mathematics and Physics, May 2001, Department of Mathematics and Computer Science, Department of Physics, Clarkson University

## Research Interests

- Intensive Longitudinal Data; Ecological Momentary Assessment Data; Longitudinal Data Analysis; Time-Dependent Covariate Modeling; Unbalanced Longitudinal Data Collection; Correlated Generalized Linear Models; Quasi-Likelihood Estimation; Generalized Method of Moments Estimation; Logistic Regression Modeling; Overdispersed Count Regression Models; Longitudinal Hurdle and ZIP Models for Excess Zeros

## Juried Publications

- Clemens, E. V., Lalonde, T. L., and Klopfenstein, K. Child welfare placement changes, school moves, and time to first school dropout event for student who experienced foster care. *In preparation for Educational Researcher*.
- Bushmaker, R. J., Corey, K. L., Lalonde, T. L., Estrada, S., Dunn, J. A. Evaluation of a new helicopter crew transport fatigue assessment. *In preparation for Air Medical Journal*.
- Clark, G., Corey, K. L., Hutchinson, T., Lalonde, T. L., Dunn, J. A. Assessing lift-off times for a hospital-based helicopter transport program. *In preparation for Air Medical Journal*.
- Roberts, M., Johnson-Bortolotto, S., Weyant, R., Jock, L., Henderson, A., and Lalonde, T. L. The experience of acute mechanical ventilation from the patient's perspective. *In preparation for American Journal of Critical Care*.
- Graham, M., Vaughan, A., and Lalonde, T. L. An adapted self-determination measure and college student first-year achievement. *Under review with Journal of The First-Year Experience & Students in Transition*.
- Fang, W. and Lalonde, T. L. Interval-censored survival data with time-dependent covariates: An extended generalized nonlinear model. *Under revision for Journal of Biomedical Analytics*.
- Vinesett, E., Bryant, B., Lalonde, T. L., and Fang, W. The evaluation of platelet count as an indicator of iron status in voluntary plateletpheresis donors. *Under revision for Transfusion*.
- Peterson, B. M., Johnson, C., Case, K., Shackelford, D. Y. K., Brown, J. M., Lalonde, T. L., and Hayward, R. (In Press). Feasibility of a combined aerobic and cognitive training intervention on cognitive function in cancer survivors: a pilot investigation. *Pilot and Feasibility Studies*, <https://doi.org/10.1186/s40814-018-0242-3>.
- Phillips, K. T., Phillips, M. M., Lalonde, T. L., and Prince, M. A. (In Press). Does social context matter? An ecological momentary assessment study of marijuana use among college students. *Addictive Behaviors*, <https://doi.org/10.1016/j.addbeh.2018.01.004>.
- Phillips, K. T., Phillips, M. M., Lalonde, T. L., and Schneider, M. (In Press). Marijuana use and associated motives in Colorado university students. *The American Journal on Addictions*, <https://doi.org/10.1111/ajad.12640>.
- Peterson, B. M., Olson, T. L., Shackelford, D. Y. K., Brown, J. M., Lalonde, T. L., and Hayward, R. (In Press). Implications of physical activity history on initial physiological and psychosocial variables in cancer survivors entering a cancer rehabilitation program. *Journal of Clinical Exercise Physiology*.
- Clemens, E. V., Klopfenstein, K., Lalonde, T. L., and Tis, M. (In Press). The effects of placement and school stability on academic growth trajectories of students in foster care. *Child and Youth Services Review*, <https://doi.org/10.1016/j.chilyouth.2018.02.015>.
- Clemens, E. V., Klopfenstein, K., Tis, M., and Lalonde, T. L. (2017). Educational stability policy and the interplay between child welfare placements and school moves. *Children and Youth Services Review*, **83**: 209-217.

- Clemens, E. V., Lalonde, T. L., and Sheesley, A. P. (2016). The relationship between school mobility and students in foster care earning a high school credential. *Children and Youth Services Review*, **68**: 193-201.
- Henecke, L. Hessler, K. L., and Lalonde, T. L. (2015). Inpatient Ambulation: Use of an Ambulation Platform Apparatus. *Journal of Nursing Administration*, **46**(6): 339-344.
- Phillips, K. T., Phillips, M. M., Lalonde, T. L., and Tormohlen, K. N. (2015). Marijuana use, craving, and academic motivation and performance among college students: An in-the-moment study. *Addictive Behaviors*, **47**: 42-47.
- Lalonde, T. L., Wilson, J. R., and Yin, J. (2014). GMM Logistic Regression Models for Longitudinal Data with Time-Dependent Covariates and Extended Classifications. *Statistics in Medicine*, **33** (27): 4756-4769.
- Vaughan, A. L., Lalonde, T. L., and Jenkins-Guarnieri, M. A. (2014). Assessing Student Achievement in Large-Scale Educational Programs Using Hierarchical Propensity Scores. *Research in Higher Education*, **55**: 564-580.
- Phillips, M. M., Phillips, K. T., Lalonde, T. L., and Dykema, K. R. (2014) Feasibility of Text Messaging for Ecological Momentary Assessment of Marijuana Use in College Students. *Psychological Assessment*, **26** (3): 947-957.
- Vaughan, A. L., Parra, J., and Lalonde, T. L. (2014). First-Generation College Student Achievement and the First Year Seminar: A Quasi-Experimental Design. *Journal of the First-Year Experience and Students in Transition*, **26**(2): 51-67.
- Repka, C. P., Peterson, B. M., Brown, J. M., Lalonde, T. L., Schneider, C. M., and Hayward, R (2014). Cancer Type Does Not Affect Exercise-Mediated Improvements in Cardiorespiratory Function and Fatigue. *Integrative Cancer Therapies*, **13** (6): 473-481.
- Schneider, C. M., Lalonde, T. L., Brown, J. M., Dallow, K. T., Repka, C. P., Barlow, C. E., and Hayward, R (2014). Demonstration of the Need for Cardiovascular and Pulmonary Normative Data for Cancer Survivors. *International Journal of Sports Medicine*, DOI: <http://dx.doi.org/10.1055/s-0034-1375691>.
- Roberts, M., Johnson, L. A., and Lalonde, T. L. (2014). Early mobility in the intensive care unit: Standard equipment vs a mobility platform. *American Journal of Critical Care*, **23** (6): 451-457.
- Lalonde, T. L., Nguyen, A. Q., Yin, J., Irimata, K., and Wilson, J. R. (2013). Modeling Correlated Binary Outcomes with Time-Dependent Covariates. *Journal of Data Science*, **11**: 715-738.
- Troxler, S., Lalonde, T. L., and Wilson, J. R. (2011). Exact logistic models for nested binary data. *Statistics in Medicine*, **30** (8): 866-876.
- Chan, S., Dochtermann, A., Foisy, J., Hespén, 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.

## Textbooks

- Riggs, J. and Lalonde, T. L. (2017). *Handbook for Applied Modeling: Non-Gaussian and Correlated Data*. Cambridge, UK: Cambridge University Press.
- Lalonde, T. L. (2017). Monte-Carlo Simulation of Correlated Binary Responses In D. G. Chen and J. D. Chen (Ed.), *Monte-Carlo Simulation-Based Statistical Modeling*, (pp. 85-105). New York, N. Y.: Springer.
- Lalonde, T. L. (2015). Modeling Time-Dependent Covariates in Longitudinal Data Analyses In D. G. Chen and J. R. Wilson (Ed.), *Innovative Statistical Methods for Public Health Data* (pp. 57-80). New York, N.Y.: Springer.

## Non-Juried Publications

- Lalonde, T. L. (2014). Modeling Correlated Counts with Excess Zeros and Time-Dependent Covariates: A Comparison of ZIP and Hurdle Mixed Models. In *JSM Proceedings*, Biometrics Section, Longitudinal and Time Series Studies Session. Alexandria, VA: American Statistical Association.
- Lalonde, T. L. (2013). GMM Estimator Covariance Structure for Time Dependent Covariates with Unbalanced Replication. In *JSM Proceedings*, Biometrics Section, Longitudinal and Time Series Studies Session. Alexandria, VA: American Statistical Association.
- Lalonde, T. L. (2011). Exact Logistic Regression for Nested Data with with Varying Dispersion Across Clusters. In *JSM Proceedings*, Health Policy Statistics Section. Alexandria, VA: American Statistical Association.
- 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.

## Funded Projects

- June 2017, \$650 (Consultant): I@UNC. Writing Efficacy Intervention.
- *Needs Assessment Evaluation of the Research Consulting Lab* (2016 Assessment Mini-Grant). PI Trent Lalonde, CI Michael Floren, CI Samantha Estrada. \$1,500, Awarded 4/13/2016.
- *Methodological Considerations of Longitudinal Modeling in Applied Educational Research: Implications for Improving Practice* (2016 Summer Support Initiative). PI Krystal Hinerman, PI Trent Lalonde. \$5,160, Awarded 5/1/2016.
- *Dynamic Intervention Longitudinal Studies: Analysis and Design* (2017 UNC Faculty Reassignment for RSCW). PI Trent Lalonde. \$5,000 (1 Course Release), Awarded 1/1/2017.
- *Understanding the Dynamics of College Student Marijuana Use: A Study using EMA* (NIH-R15). PI Kristina Phillips, PI Michael Phillips, CI Trent Lalonde. \$402,249, Awarded 3/1/2016, Grant Number 1R15DA041656-01.

- January 2016, \$1500 (Consultant): Institute of Education Sciences. Longitudinal analysis of foster child school movement and graduation outcomes.
- January 2016, \$650 (Consultant): I@UNC. Writing Efficacy Intervention.
- November 2015, \$1357 (PI): Provost Award for Travel. Modeling time-dependent covariates in longitudinal data analyses.
- June 2015, \$752 (PI): Provost Award for Travel. Joint modeling of mean and dispersion with time-dependent covariates: Application to longitudinal drug usage data.
- November 2014, \$982 (PI): Provost Award for Travel. Modeling longitudinal count data with excess zeros and time-dependent covariates: Application to drug use.
- January 2014, \$5,000 (PI): UNC Office of Research Faculty Reassignment Award. Joint Modeling of Mean and Dispersion Using Moment Methods. (1 Course Reassignment)
- November 2013, \$2,160 (PI): Provost Award for Travel. A power comparison between hierarchical and marginal longitudinal logistic regression models: Application to marijuana usage.
- May 2013, \$2,400 (PI): Summer Support Initiative (SSI). The Impact of Child Exercise on Obesity: A Multilevel Longitudinal Study Adjusting for Collinearity.
- April 2013, \$1,458 (PI): Provost Award for Travel. The Role of a First-Year Seminar Course in First-Generation Student Achievement and Persistence.
- January 2013, \$5,000 (PI): UNC Office of Research Faculty Reassignment Award. Comprehensive Analysis of Binary Longitudinal Data with Time-Dependent Covariates. (1 Course Reassignment)

### Invited Presentations

- November 9, 2015, American Public Health Association Annual Meeting (Invited). Lalonde, T. L. (2015). "Modeling Time-Dependent Covariates in Longitudinal Data Analyses," Chicago, IL.
- June 16, 2015, Western North American Region, International Biometric Society Annual Meeting (Invited). Lalonde, T. L., and Ramezani, N. (2015). "Joint Modeling of Mean and Dispersion with Time-Dependent Covariates: Application to Longitudinal Drug Usage Data," Boise, ID.
- November 5, 2014, University of Colorado-Denver Anschutz Medical Campus Biostatistics Seminar (Invited). Lalonde, T. L. (2014). "Longitudinal count data: Excess zeros, time-dependent covariates, and moment methods," Denver, CO.

### Juried Presentations

- August 1, 2017, Joint Statistical Meetings. Session 334 / 424: Statistical Education, "Longitudinal modeling in applied research: Implications for improving practice," Baltimore, MD.

- July 29, 2017, The Scientific Meeting of the Research Society on Marijuana. “Marijuana use, mood, and craving: A study using EMA with college students,” Fort Collins, CO.
- April 4, 2017, UNC Distinguished Scholar Poster Session. Summer Support Initiative Poster, “Methodological considerations of longitudinal modeling in applied education research: Implications for improving practice,” Greeley, CO.
- March 28, 2017, UNC Assessment Fair. Assessment Mini-Grant Poster, “Needs assessment evaluation of the research consulting lab,” Greeley, CO.
- October 30, 2016, American Public Health Association. Session 2068.0: Public health implications of marijuana use, “Association between academic motivation and marijuana use: An ecological momentary assessment study,” Denver, CO.
- August 2, 2016, Joint Statistical Meetings. Session 308 / 385: Statistics for Health and Health Policy, “Real-time modeling of variation in longitudinal momentary self-report data,” Chicago, IL.
- April 15, 2016, Rocky Mountain Evidence Based Practice symposium. “Transport Fatigue Assessment Tool: A new evaluation for flight crew fatigue,” Denver, CO.
- October 25, 2015, American Association of Blood Banks. “Platelet Count as an Indicator of Iron Status in Plateletpheresis Donors,” Anaheim, CA.
- October 8, 2015, National Cannabis Prevention and Information Centre Conference. Workshop 1: “Post-legalization marijuana use among university students in Colorado, USA,” Melbourne, Australia.
- August 9, 2015, Joint Statistical Meetings. Session 82: Methods for longitudinal data with non-standard distributions, “Modeling longitudinal counts with excess zeros: A Hurdle GMM approach,” Seattle, WA.
- April 9, 2015, Rocky Mountain Interprofessional Research & Evidence-Based Practice Symposium. “Reducing Alarm Fatigue by Decreasing Inactionable Alarms from Bedside Physiologic Monitors,” Denver, CO.
- March 20, 2015, NASPA Student Affairs Administrator in Higher Education Annual Conference. “Party School Rankings: Do We Have Anything to Worry About?” New Orleans, LA.
- November 17, 2014, American Public Health Association. Modeling, Estimation, and Implementation Science Roundtable: “Modeling longitudinal count data with excess zeros and time-dependent covariates: Application to drug use,” New Orleans, LA.
- August 3, 2014, Joint Statistical Meetings, Session 28: Analysis of Count Data, “Model Comparisons for Correlated Count Responses with Excess Zeros and Time-Dependent Covariates,” Boston, MA.
- June 16, 2014, College on Problems of Drug Dependence, “Daily marijuana use and craving in the academic setting: A study using ecological momentary assessment,” San Juan, Puerto Rico.

- March 7, 2014, Evidenced Based Practice Conference, "Use of a Platform for Patient Ambulation," Denver, CO.
- November 6, 2013, American Public Health Association, Session 5095.0: Model comparisons and applications in public health, "A power comparison between hierarchical and marginal longitudinal logistic regression models: Application to marijuana usage," Boston, MA.
- August 7, 2013, Joint Statistical Meetings, Session 482: Longitudinal and Time Series Studies, "GMM Estimator Covariance Structure for Time-Dependent Covariates with Unbalanced Replication," Montreal, QC, CA.
- August 2, 2013, American Psychological Association Annual Convention, "Craving and Academic Outcomes among University Marijuana Users: A Study using EMA," Honolulu, HI.
- May 30, 2013, American College of Sports Medicine, "Relationship of Strength and Cardiovascular Training on Cancer-Related Fatigue," Indianapolis, IN.
- April 30, 2013, American Educational Research Association Division of Postsecondary Education, College Student Learning and Development Poster Session, "The Role of a First-Year Seminar Course in First-Generation Student Achievement and Persistence," San Francisco, CA.
- April 29, 2013, American Educational Research Association Division of Measurement and Research Methodology, Methodological Considerations of Research on Poverty session, "Methodological and Ethical Considerations for Research With Participants Who Are Homeless," San Francisco, CA.
- March, 2013, American College of Sports Medicine National Conference, "Relationship of Strength and Cardiovascular Training on Cancer-Related Fatigue," Indianapolis, IN.
- November 16, 2012, Association for the Study of Higher Education General Session Table 32, "The Party School Effect: Institutional-level Changes Associated with Appearing on the Princeton Review List," Las Vegas, NV.
- July 30, 2012, Joint Statistical Meetings Session 158, "Existing Methods for Correlated Logistic Regression with Time-Dependent Covariates," San Diego, CA.
- July 30, 2012, Joint Statistical Meetings Session 158, "Extended Classification of Time-Dependent Covariates," San Diego, CA.
- July 30, 2012, Joint Statistical Meetings Session 158, "Comparison of Methods of GMM Estimation," San Diego, CA.
- July 30, 2012, Joint Statistical Meetings Session 158, "Application of Time-Dependent Covariate Methods to Medicare Rehospitalization Data," San Diego, CA.
- June, 2012, National American College of Sports Medicine Conference, "Physiological and Psychological Responses to a Longitudinal Rehabilitation Program," San Francisco, CA.
- June, 2012, National American College of Sports Medicine Conference, "The Effect of Preconditioning Physiological and Psychological Assessments Following Treatment," San Francisco, CA.

- June, 2012, National American College of Sports Medicine Conference, “The Effect Physical Activity has on Physiological and Psychological Outcomes in Cancer Survivors,” San Francisco, CA.
- June, 2012, National American College of Sports Medicine Conference, “Validation of the Rocky Mountain Cancer Rehabilitation Institute Multistage Treadmill Protocol for Cancer Survivors,” San Francisco, CA.
- June, 2012, National American College of Sports Medicine Conference, “Initial Physiological and Psychological Measures in Cancer Survivors During Treatment Versus Following Treatment,” San Francisco, CA.
- October 31, 2011, American Public Health Association National Meetings Session 3379.0, “Methods for modeling time-dependent covariates with non-continuous response found in community health data,” Washington, D.C.
- August 1, 2011, Joint Statistical Meetings Session 171, “Exact Logistic Regression for Nested Data with with Varying Dispersion Across Clusters,” Miami, FL.
- August 3, 2010, Joint Statistical Meetings Session 353, “Generalized Method of Moments for Binary Data,” Vancouver, BC
- August, 2008, American Statistical Association Joint Statistical Meetings, “Multilevel Overdispersion in Hierarchical Generalized Linear Models,” Denver, CO.
- August, 2007, American Statistical Association Joint Statistical Meetings, “Use of Hierarchical Generalized Linear Models for Overdispersion,” Salt Lake City, UT.
- January 2001, American Mathematical Society Winter Meetings, “Hereditary Linking Properties of Graphs,” New Orleans, LA.
- January, 2000, American Mathematical Society Winter Meetings, “Linking Properties of Complete Graphs,” Washington, D.C.
- August, 1999, American Mathematical Society / Mathematical Association of America Joint Meetings, “Intrinsically (Edge) Disjoint Graphs,” Providence, RI.

## Instructional Experience

2009 - Present, University of Northern Colorado: Introduction to Graduate Research (SRM 600), Statistical Methods I (SRM 602), Statistical Methods II (SRM 603), Applied Statistics (SRM 502), Introduction to R Programming (SRM 522), Introduction to Statistical Consulting (SRM 531), Advanced Data Analysis (SRM 611), Linear Model Theory (SRM 614), Longitudinal Data Analysis (SRM 619), Categorical Data Analysis (SRM 635), various apprenticeships and independent studies.

2008 - 2009, Elements of Statistics, School of Mathematical and Statistical Sciences, Arizona State University

2006, Introduction to Biostatistics (TA), Arizona Department of Health Services (ADHS)

2005, Design of Experiments (TA), W. P. Carrey School of Business, Arizona State University

2007, Brief Calculus, School of Mathematical and Statistical Sciences, Arizona State University

2005, Pre-Calculus, School of Mathematical and Statistical Sciences, Arizona State University

2007, Finite Mathematics, School of Mathematical and Statistical Sciences, Arizona State University

2006, College Mathematics, School of Mathematical and Statistical Sciences, Arizona State University

2003, College Algebra, Department of Mathematics, University of Wisconsin - Madison

2002, Calculus (TA), Department of Mathematics, University of Wisconsin - Madison

2000 - 2001, Introduction to Physics (Lab Instructor), Department of Physics, Clarkson University

2000, Ordinary Differential Equations (TA), Department of Mathematics and Computer Science, Clarkson University

1999 - 2001, Multivariate Calculus (TA), Department of Mathematics and Computer Science, Clarkson University

## Statistical Consulting

2012-Present, Assisted with various projects as biostatistician for UC-Health, MCR

2013-2017, Assisted with various projects as Director of the Research Consulting Lab of UNC.

2012-2013, Assisted DVM / Prima-Temp with analysis of dairy cow temperature data.

2012, Assisted RMCRI with analysis of VO<sub>2</sub> Peak description for cancer survivors.

2012, Assisted David Gilliam in analyzing binary and count data regarding successful implantation of mouse fetuses.

2012, Assisted Claudia Hernandez-Camacho and Karina Villegas on clustered analysis of sea lion nursing data.

2012, Assisted the Trauma Center of the Medical Center of the Rockies with research on the national VRC data set, and the National Trauma Data Bank (NTDB).

2012, Assisted Nursing Research Committee at the Medical Center of the Rockies with VA/RAT logistic analysis and the Livengood repeated-measures analysis.

2011, Assisted Nursing Research Committee of the Medical Center of the Rockies with statistical analysis and design.

2011, Assisted Claudia Hernandez-Camacho in fitting generalized linear models using R for analysis of reproduction of California sea lions.

2011, Assisted David Gilliam in analyzing binary data regarding successful implantation of mouse fetuses.

2011, Assisted Pinney Associated with the construction and interpretation of a Binary Logistic Regression model using Generalized Estimating Equations.

2010, Assisted Jesse Valdez in constructing plots for a poster presentation at APA.

2010, Assisted Brent Peterson with the results section of his poster presentation of multiple imputation analysis.

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

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.

2009, Assisted Claudia Hernandez-Camacho, Ecology, with interpretation of results of a repeated-measures analysis of data pertaining to nursing habits of California sea lions

2008, Assisted Claudia Hernandez-Camacho, Ecology, with analysis and interpretation of logistic regression analysis of data pertaining to reproductive habits of California sea lions

2008, Assisted David Jacobs, Biology, and Claudia Hernandez-Camacho, Ecology, with clustered logistic analysis of data pertaining to male aggression in California sea lions; resulted in publication of Jacobs, D. F., Hernandez-Camacho, C. J., Young, J. K., and Gerber, L. R. (2008). Determinants of Outcomes of Agonistic Interactions Among Male California Sea Lions (*Zalophus Californianus*). *Journal of Mammalogy*, 89(5): 1212-1217.

2007 - 2008, Statistical Consultant in ASU Statistics Lab

## Graduate Student Committees

- Active Committees: Abdullah Zagaan, ASRM Bobby Resch, ASRM Jay Morrissey, ASRM Justin Harding, ASRM Maryam Skafyam, ASRM (Directing Research) Mostafa Zahedjarhomi, ASRM (Directing Research) Alisa Udomvisawakul, ASRM Hasni Saidi, ASRM Samy Estrada, ASRM Todd Connelly, ASRM (Directing Research) Tyler Kincaid, ASRM Scott Kreider, ASRM (Directing Research) Maryann Shane, ASRM (Directing Research) Zabedah Saad, ASRM Stephanie Pergantis, Ed. Psych.
- Dissertations Directed:
  - Michael Floren, 2018
  - Niloofar Ramezani, 2017
  - Gadir Alomair, 2017
  - Wei Fang, 2015
  - Kimberly Kaufeld, 2014
  - Jamie Riggs, 2013
  - Intesar Abdoslam, 2013
  - Haleem Suaiee, 2013
  - Jalal Saaid, 2013

- Completed Dissertation Committees: Katie Burakowski, SES (2012) Nick Eastham, CEBS (2013) Caroline Emserman, ASRM (2013) Stephanie Greufe, SES (2013) Tyler Kimbel, CEBS (2013) Cindy Kronauge, ASRM (2012) Ben Overholt, ASRM (2013) Aman Pannu, ASRM (2013) Eric Teman, ASRM (2012) Jamil Zeinab, ASRM (2013) Achut Adhikari, ASRM (2014) Kirk Ketelsen, ASRM (2014) Chris Repka, SES (2014) Laura Schenck, CEBS (2014) David Reavill, ASRM (2014) Marek Dvorak, CEBS (2014) Annie Lu, ASRM (2015) JangDong Seo, ASRM (2015) Brent Peterson, SES (2015) Arlene Stredler-Brown, CEBS (2015) Joshua Cohen, HESAL (2015) Chelsie Hess, Educational Psychology (2016) Chittanun Sitthisan, ASRM (2016) Katie Yang, ASRM (2016) Stephanie Fanselow, STE (2016) Mohammad Alomair, ASRM (2017) Rafael Perez-Abreu, ASRM (2017) Karen Traxler, ASRM (2017) Amani Al-baqshi, ASRM (2017)

## Awards and Recognition

CEBS Outstanding Advisor Award, 2013

## Professional Service

APHA Spiegelman Award Selection Committee, 2017-2019

Past-Chair, Applied Public Health Statistics section, American Public Health Association, 2016-2017

Chair, Applied Public Health Statistics section, American Public Health Association, 2015-2016

Chair-Elect, Applied Public Health Statistics section, American Public Health Association, 2014-2015

Research Advisory Council, UNC, 2015-2016.

Chair, Faculty Research and Publications Board (2014-2015)

Section Councilor, Applied Public Health Statistics section, American Public Health Association, 2011-2014.

Member, Faculty Research and Publications Board, 2012-2015.

Faculty Coordinator, STAT 150, University of Northern Colorado, 2009 - 2013.

Curriculum Committee, College of Education and Behavioral Sciences, University of Northern Colorado, 2009 - 2012, 2016-2017.

UNC Representative, Colorado-Wyoming Chapter of the ASA, 2011 - present.

Chair / Moderator, APHA annual meetings, 2012 - present.

Chair, JSM, 2010, 2011, 2013.

Various presentations at ASRM colloquium.

Various semesters serving during commencement ceremony, UNC.

Faculty Sponsor, UNC Research Day, 2011 - present.

Coordinator, Graduate Student Seminar, School of Mathematical and Statistical Sciences, Arizona State University, 2006 - 2007.

### **Professional Organizations**

Member of American Statistical Association (ASA)

Member of American Public Health Association (APHA)

Member of Pi Mu Epsilon mathematical society (PME)