

Dustin A. Fife, Ph.D.

CONTACT INFORMATION

Dustin Fife
2704 Mountain Oaks Drive
Norman, OK 73071 USA

Mobile: 405.589.7786
E-mail: dfife@ou.edu

RESEARCH INTERESTS

Quantitative Interests: Missing data, particularly selection within subject pools. Model evaluation in Structural Equation Modeling (SEM). Graphical data analysis.

ACADEMIC AND RESEARCH APPOINTMENTS

Faculty August 2013 to Present
Department of Psychology,
University of Oklahoma

Senior Biostatistician August 2013 to Present
Department of Arthritis and Clinical Immunology,
Quantitative Analysis Core
The Oklahoma Medical Research Foundation

Graduate Student Instructor August 2008 to May 2013
Department of Psychology, The University of Oklahoma

EDUCATION

The University of Oklahoma, Norman, OK

Ph.D., Quantitative Psychology, August 2013

- Dissertation Title: *The Achilles Heel of Psychology: How Selection Affects Statistical Significance in Experimental Design*
- Adviser: Professor Jorge L. Mendoza, Chair
- Minor: Cognitive Psychology

M.S., Quantitative Psychology, August 2010

- Thesis Topic: *The Assessment of Reliability Under Range Restriction: A Comparison of α , ω , and Test-Retest Reliability for Dichotomous Data*
- Adviser: Professor Jorge L. Mendoza, Chair
- Minor: Industrial/Organizational Psychology

Brigham Young University, Provo, UT

B.S., Department of Psychology, May 2008

- Minor: Statistics

PEER REVIEWED PUBLICATIONS

- [1] **Fife, D.A.**, & Mendoza, J.L., (in press). Estimating Incremental Validity Under Missing Data. *Multivariate Behavioral Research*.
- [2] Munroe, M. E., Lu, R., Zhao, Y. D., **Fife, D.A.**, et al. (in press). Altered Type II Interferon Precedes Autoantibody Accrual and Elevated Type I Interferon Activity Prior to Systemic Lupus Erythematosus Classification. *Annals of the Rheumatic Diseases*.
- [3] **Fife, D.A.**, Hunter, M.D., & Mendoza, J. L. (in press). Estimating Unattenuated Correlations with Limited Information About Selection Variables: Alternatives to Case IV. *Organizational Research Methods*.
- [4] **Fife, D.A.**, Rodgers, J.L., & Mendoza, J. L. (2014). Model conditioned data elasticity in path analysis: Assessing the “confoundability” of the data. *Multivariate Behavioral Research*.(49), 597-613.

- [5] Ritterhouse, L. L., Lu, R., Shah, H. B., Robertson, J. M., **Fife, D. A.**, Maecker, H. T., ... & James, J. A. (2014). Vitamin D Deficiency in a Multiethnic Healthy Control Cohort and Altered Immune Response in Vitamin D Deficient European-American Healthy Controls. *PloS one*, *9*(4), e94500.
- [6] **Fife, D.A.**, Perry, C.J., & Gronlund, S.D. (2014). Revisiting absolute and relative judgments in the WITNESS model. *Psychonomic Bulletin and Review*, *21*(2), 479-487.
- [7] **Fife, D.A.**, Rodgers, J.L., & Mendoza, J. L. (2013). Abstract: Model conditioned data elasticity in path analysis: Assessing the “confoundability” of the data. *Multivariate Behavioral Research*, *48*(1), 157.
- [8] **Fife, D. A.**, Mendoza, J. L., & Terry, R. (2013). Revisiting Case IV: A reassessment of bias and standard errors of Case IV under range restriction. *British Journal of Mathematical and Statistical Psychology*, *66*(3). 521-542.
- [9] Pleitz, J., **Fife, D. A.**, Pearse, E., Terry, R., Campbell, N. J. (2012). Estimating the effect of academic intervention in a mandatory study skills class. In R. Hayes (Ed.), *Proceedings of the 8th National Symposium on Student Retention, 2012, New Orleans, LA*. Norman, OK: The University of Oklahoma, forthcoming, Fall 2012.
- [10] **Fife, D. A.**, Mendoza, J. L., and Terry, R. (2012). The assessment of reliability under range restriction: A comparison of α, ω , and test-retest reliability for dichotomous data. *Educational and Psychological Measurement*, *72*(5), 862-868.
- [11] Pleitz, J., **Fife, D. A.**, Terry, R., Campbell, N. J. (2011). Rethinking at-risk. In R. Hayes (Ed.), *Proceedings of the 7th National Symposium on Student Retention, 2011, Charleston, NC*. Norman, OK: The University of Oklahoma.
- BOOK CHAPTERS [12] **Fife, D.A.**, and Mendoza, J.L. (2010). Central Tendency Measures. In *Corsini Encyclopedia of Psychology*. 1-2
- SUBMITTED
JOURNAL
PUBLICATIONS [13] **Fife, D.A.**, Day, E., Mendoza, J.L., Terry, R. (2015). *Estimating Subgroup Differences on the Predictor and Criterion When the Selection Mechanism is Unknown: A Response to Li’s Case IV Correction*. Manuscript submitted for publication (under review).
- PAPERS IN
PREPARATION [14] Brown, M., **Fife, D.A.**, Guthridge, J. M., James, J. A., Monroe, M. E., Montgomery, C. G. (2015). *Association of IFIH1 and Pro-Inflammatory Mediators: Potential Involvement in SLE Pathogenesis*. Manuscript in preparation.
- [15] Brown, M.A., **Fife, D.A.**, et al., (2015). *Novel Approaches for Examining the Predictive Validity of Screening Tools in Clinical Research*. Manuscript under revision..
- [16] **Fife, D.A.**, & Mendoza, J.L., (2015b). *The Achilles heel of psychology: How selection affects statistical significance in experimental design*. Manuscript under revision.
- CONFERENCES
AND
PRESENTATIONS [17] Brame, L., Scott, J., Chacko, S, Molineros, J., Adianto, I., **Fife, D.A.**, Husain, F., (2014, May). *Cognitive dysfunction: Comparison in multiple sclerosis with human controls*.. Poster presented at the annual meeting of the Consortium of Multiple Sclerosis Centers, Indianapolis, IN.

- [18] **Fife, D.A.**, Perry, C.J., & Gronlund, S.D. (2012, November). *Revisiting absolute and relative judgments in the WITNESS model*. Poster presented at the annual meeting of the Psychonomic Society, Minneapolis, MN.
- [19] **Fife, D.A.**, Rodgers, J.L., & Mendoza, J. L. (2012). *Model conditioned data elasticity in path analysis: Assessing the “confoundability” of the data*. Poster presented at the annual meeting of the Society for Multivariate Experimental Psychology, Vancouver, BC.
- [20] Terry, R., Campbell, N.J., **Fife, D.A.**, & Pleitz, J.A., (2011, October). *Graphs in motion: A logistic regression case study*. Paper presented at the annual meeting of the Society for Multivariate Experimental Psychology, Norman, OK.
- [21] **Fife, D.A.**, Mendoza, J.L., & Terry, R. (2010, August). *The breakdown and correction of reliability under range restriction*. Poster session presented at the annual meeting of the American Psychological Association, San Diego, CA.
- [22] **Fife, D.A.**, Mendoza, J.L., & Terry, R. (2009, August). *The breakdown of alpha in the restricted space*. Poster session presented at the annual meeting of the American Psychological Association, Toronto.
- [23] **Fife, D.A.**, Frakes, L., Gritton, L., Gearing, A., and Clayton, C. (2006, February). *Does spirituality produce the halo effect? A comparison of the halo effect of physical attractiveness to spirituality*. Poster presented at the Ira and Mary Lou Foulton Mentored Research Conference, Provo, UT.
- SOFTWARE PUBLICATIONS
- [24] **Fife, D.A.** (2014). WITNESS: Fit eyewitness data using Clark’s (2003) WITNESS model. [Computer Software Manual]. Available from <http://CRAN.R-project.org/package=witness>.
- [25] **Fife, D.A.** (2014). fifer: A collection of functions that assist in data manipulation, analysis, and plotting. [Computer Software Manual]. Available from <http://CRAN.R-project.org/package=fifer>.
- [26] **Fife, D.A.** (2014). DE: Model Conditioned Data Elasticity in R. [Computer Software Manual]. Available from <https://github.com/dustinfife/DE>.

TEACHING EXPERIENCE

The University of Oklahoma, Norman, OK

Undergraduate Teaching

August 2012 to Present

- Instructor for Psych 2003: Undergraduate Statistics for Non-Psychology Majors
 - Taught classes of 104 students
 - Designed course curriculum for students

August 2009 to May 2012

- Instructor for Psych 2113: Undergraduate Statistics for Psychology Majors
 - Designed course curriculum for both online and in-class sections of the class.
 - Class sizes ranged from 30 to 60 students

Graduate Teaching

August 2010 to December 2010

- Lab Instructor for Psych 5003: Introduction to Statistics
 - Taught graduate students how to use SAS for data analysis.

Fife School of Photography, Provo, UT/Norman, OK

Owner and Instructor

June 2008 to Present

- Created, owned, and operated a photography school
- Taught six different photography classes to aspiring photographers
- Taught over 400 students over the course of three years

**SOFTWARE &
PROGRAMMING
SKILLS**

Statistical computing

- R (proficient)
- SAS (proficient)
- SPSS (proficient)

Web/Database Management

- HTML (proficient)
- PHP (proficient)
- Javascript (working knowledge)
- MySQL (proficient)

Graphic Design/Typesetting

- Adobe Lightroom (proficient)
- Adobe Photoshop (proficient)
- L^AT_EX (proficient)
- Tikz (working knowledge)

**PROFESSIONAL
AND RESEARCH
EXPERIENCE**

University of Oklahoma, Norman, OK

Faculty

2013-present

- Teach introductory statistics

Oklahoma Medical Research Foundation, Oklahoma City, OK

Senior Biostatistician

2013-present

- Perform power analyses and write statistical sections for grant applications
- Model statistical relationships between variables for publications
- Consult on papers and grant applications

University of Oklahoma Department of Radiology Services, Oklahoma City, OK

Consultant

Summer 2012

- Developed training modules in R and SAS
- Researched and analyzed agreement in fMRI mapping algorithms
- Created reports in R, Word, and Latex depicting research findings
- Consulted on the design of future research projects with principal investigator

Center for the Study of Human Operator Performance, Norman, OK

Analyst

Summer 2009

- Established norms for ANAM battery of cognitive performance
- Investigated potential benchmarks for post-injury cognitive impairment

- Collaborated as a team of 15 associates to complete projects

Redwood Learning Center, Draper, UT

Behavioral Therapist

2006-2007

- Shaped the behavior of an autistic child
- Reported misbehavior
- Collaborated with other therapists on how to address behavioral problems

AWARDS AND
GRANTS

Department of Defense Grant

- Title: Towards Personalized Medicine – Patient-Derived Breast Tumor Grafts as Predictors of Relapse and Response to Therapy
- Awarded summer 2014
- Amount: \$2,000,000

National Institute of Health Grant

- Title: Oklahoma Autoimmunity Centers of Excellence: Mechanisms of Disease Flare
- Awarded 2013.
- Amount: \$544,404

Chuck Gettys Award For Outstanding Research In Graduate School

- Spring 2013. The University of Oklahoma
- \$500 awarded for outstanding quality and quantity of research effort completed by a doctoral student while enrolled in the graduate program in the Department of Psychology at the University of Oklahoma.

Best Paper Award, CSRDE

- Fall 2011. The Consortium for Student Retention Data Exchange (CSRDE)
- \$300 awarded for best paper presented at the annual conference

Travel Scholarship

- Summer 2010. University of Oklahoma
- \$1250 awarded to present research on assessing reliability under selection

ORCA Research Grant

- 2007-2008, Brigham Young University
- \$1500 award to pursue research on Empathy vs. Fear-of-Conflict research

Honors Department Research Grant

- 2006, Brigham Young University
- \$300 award to pursue research on Empathy vs. Fear-of-Conflict research

Merit Scholarship

- Winter 2007. Brigham Young University

Edrington-Hynes Merit Scholarship

- W.b. 2006, Brigham Young University

REFERENCES
AVAILABLE TO
CONTACT

Dr. Jorge L. Mendoza (e-mail: jmendoza@ou.edu; phone: 405.325.4568)

- Professor, Quantitative Psychology, University of Oklahoma
- 455 W. Lindsey Street, Dale Hall Tower, Room 705, Norman, OK 73019-2007
- *Dr. Mendoza was my graduate adviser.*

Dr. Robert Terry (e-mail: rterry@ou.edu; phone: 405.325.4593)

- Professor, Quantitative Psychology, University of Oklahoma
- 455 W. Lindsey Street, Dale Hall Tower, Room 705, Norman, OK 73019-2007

Dr. Scott D. Gronlund (e-mail: sgronlund@ou.edu; phone: 405.325.4553)

- Professor, Cognitive Psychology, University of Oklahoma
- 455 W. Lindsey Street, Dale Hall Tower, Room 705, Norman, OK 73019-2007

Dr. Joseph L. Rodgers (e-mail: joseph.l.rodgers@vanderbilt.edu)

- Professor, Quantitative Methods, Vanderbilt University
- Department of Psychology, Vanderbilt University, PMB 407817, 2301 Vanderbilt Place, Nashville, TN 37240-7817