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Vita

Craig Kyle Enders, Ph.D.

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Education

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· Ph.D., University of Nebraska, Educational Psychology, Quantitative and Qualitative Methods in Education, 1999
· M.A., University of Nebraska, Educational Psychology, Quantitative and Qualitative Methods in Education, 1995
· B.A., University of Nebraska, Psychology, 1991

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Academic Positions

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· Professor, Psychology, UCLA, Los Angeles, CA, 2015-current.
· Professor, Psychology, Arizona State University, Tempe, AZ, 2013-2015.
· Associate Professor, Psychology, Arizona State University, Tempe, AZ, 2007-2013.
· Assistant Professor, Psychology, Arizona State University, Tempe, AZ, 2005-2007.
· Assistant Professor, Educational Psychology, University of Nebraska, Lincoln, NE, 2003-2005
· Assistant Professor, Department of Educational and Psychological Studies, University of Miami, Coral Gables, FL, 1999-2003

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Work on Funded Projects (UCLA)

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Investigators: Craig Enders (Principal Investigator)
Title: Dealing with Missing Data in Educational Research: Methodological Innovations and Contemporary Recommendations
Dates: 2022-2024
Amount: $340,554.00
Annual Effort: 19.67%

Investigators: Craig Enders (Principal Investigator), Han Du, Brian Keller (Co-PIs)
Title: Model-based multiple imputation for multilevel data: Methodological extensions and software enhancements
Dates: 2019-2022
Amount: $868,046.00
Annual Effort: 19.67%

Investigators: Craig Enders (Principal Investigator) and Roy Levy
Title: Multiple imputation procedures for multilevel data
Funding Source: Institute of Educational Sciences
Dates: 2016-2018
Amount: $872,032
Recognition: 95%

Computer Software and Technical Appendices

Keller, B. T., & **Enders, C. K.** (2021). *Blimp user's guide* (Version 3). Available at www.appliedmissingdata.com/blimp.

Keller, B. T., & **Enders, C. K.** (2020). *Blimp user's guide* (Version 2.2). Available at www.appliedmissingdata.com/blimp.

Enders, C.K., Du, H., & Keller, B.T. (2020). *Blimp technical appendix: Bayesian estimation for multilevel path models*. Los Angeles, CA. Available at www.appliedmissingdata.com/blimp-papers.

Enders, C.K., Du, H., & Keller, B.T. (2019). *Blimp technical appendix: Fully Bayesian model-based estimation and multiple imputation for multilevel models*. Los Angeles, CA. Available at www.appliedmissingdata.com/blimp-papers.

Enders, C.K., & Keller, B.T. (2019). *Blimp technical appendix: Centering covariates in a Bayesian multilevel analysis*. Los Angeles, CA. Available at www.appliedmissingdata.com/blimp-papers.

Enders, C.K., & Keller, B.T. (2019). *Blimp technical appendix: Variance explained effect sizes for Bayesian multilevel analyses*, Los Angeles, CA. Available at www.appliedmissingdata.com/blimp-papers.

Books

Enders, C.K. (2022). *Applied missing data analysis* (2nd ed). New York: Guilford.

Enders, C.K. (2010). *Applied missing data analysis*. New York: Guilford.

Book Chapters and Edited Volumes

Enders, C.K. (2022). Fitting structural equation models with missing data. In R. Hoyle (Ed.), *Handbook of structural equation modeling* (2nd ed., pp. 223-241) Guilford Press: New York.

Enders, C.K., & Hayes, T. (2022). Missing data handling for multilevel data. In A. O'Connell, B. McCoach, & B. Bell (Eds.), *Multilevel modeling methods with introductory and advanced applications* (pp. 535-566). Information Age: Greenwich, CT.

Hayes, T., & **Enders, C.K.** (2022). Maximum likelihood and multiple imputation missing data handling: How they work, and how to make them work in practice
. In H. Cooper, M. Coutanche, L. McMullen , A. Panter, D. Rindskopf, K. Sher (Eds.), *APA Handbook of Research Methods in Psychology* (2nd ed, pp. 27-51). American Psychological Association: Washington, DC.

Baraldi, A., **Enders, C.K.** (2020). Missing data. In A. Wright & M. Hallquist (Eds.), *Cambridge Handbook of Research Methods in Clinical Psychology* (pp. 444-466). Cambridge, UK. Cambridge University Press.

Enders, C.K., & Baraldi, A.N. (2018). Missing data handling methods. In P. Irwing, T. Booth, & D. Hughes (Eds.), *The Wiley handbook of psychometric testing: A multidisciplinary approach to survey, scale and test development* (pp. 139-186). Chichester, UK: John Wiley & Sons.

Baraldi, A.N., & **Enders, C.K.** (2013). Missing data methods. In T.D. Little (Ed.), *The Oxford Handbook of Quantitative Methods* (pp. 635-664). New York: Oxford University Press.

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Enders, C.K. (2013). Analyzing structural equation models with missing data. In G.R. Hancock & R.O. Mueller (Eds.), *A Second course in structural equation modeling* (2nd Ed.) (pp. 493-520). Information Age: Greenwich, CT.

Enders, C.K. (2013). Centering predictors and contextual effects. In M.A. Scott, J.S. Simonoff, & B.D. Marx (Eds.), *The Sage Handbook of Multilevel Modeling* (pp. 89-108). Newbury Park, CA: Sage.

Enders, C.K., & Gottschall, A.C. (2011). The impact of missing data on the ethical quality of a research study. In A.T. Panter & S.K. Sterba (Eds.), *The Ethics of Quantitative Methodology* (pp. 357-382). New York: Routledge.

Mistler, S.A., & **Enders, C.K.** (2011). An introduction to planned missing data designs for developmental research. In B. Laursen, T. Little & N. Card (Eds.), *Handbook of Developmental Research Methods* (pp. 742-754). New York: Guilford.

Daly, E.J., & **Enders, C. K.** (Eds.). (2010). Special series on statistical analysis. *Journal of School Psychology, 48*(1).

Tofighi, D., & **Enders, C.K.** (2007). Identifying the correct number of classes in growth mixture models. In Hancock, G.R., & Samuelsen, K.M. (Eds.), *Advances in latent variable mixture models* (pp. 317-341). Information Age: Greenwich, CT.

Enders, C.K. (2006). Analyzing structural equation models with missing data. In G.R. Hancock & R.O. Mueller (Eds.), *A Second course in structural equation modeling* (pp. 313-344). Information Age: Greenwich, CT.

Enders, C., Dietz, S., Montague, M., & Dixon, J. (2006). Modern alternatives for dealing with missing data in special education research. In T.E. Scruggs & M.A. Mastropieri (Eds.), *Advances in Learning and Behavioral Disorders (Vol. 19)* (pp. 101-130). New York: Elsevier.

Tofighi, D., & **Enders, C.** (2006). The harmonic mean. In N.J. Salkind (Ed.), *Encyclopedia of Measurement and Statistics (Vol. 2)* (pp. 425-426). Newbury Park, CA: Sage.

Enders, C.K. (2005). Direct maximum likelihood. In B. Everitt & D.C. Howell (Eds.), *Encyclopedia of Behavioral Statistics* (pp. 492-494). West Sussex, UK: Wiley.

Enders, C.K. (2005). Estimation by maximum likelihood. In B. Everitt & D.C. Howell (Eds.), *Encyclopedia of Behavioral Statistics* (pp. 1164-1170). West Sussex, UK: Wiley.

Papers in Progress

Alacam, E., **Enders, C.K.**, Du, H., & Keller, B.T. (2021). A model-based approach to treating composite scores with missing items. *Manuscript submitted for publication to Psychological Methods.*

Enders, C.K. (2022). Missing data: An update on the state of the art. *Manuscript submitted for publication to Psychological Methods.*

Enders, C.K., & Woller, M.T., & Keller, B.T. (2022). A simple Monte Carlo method for estimating power in multilevel designs. *Manuscript submitted for publication to Psychological Methods.*

Keller, B.T., & **Enders, C.K.** (2020). Fully conditional specification imputation for three-level data structures. *Manuscript in preparation*.

Keller, B.T., & **Enders, C.K.** (2021). An investigation of factored regression missing data methods for multilevel models with cross-level interactions. *Manuscript submitted for publication at Multivariate Behavioral Research*.

Refereed Journal Articles

Parker, J.E., Levinson, J.A., Hunger, J.M., **Enders, C.K.**, Laraia, B.A., Epel, E.S., & Tomiyama, J. (in press). Longitudinal stability of disordered eating symptoms from age 12 to 40 in Black and white women**.** *Body Image*.

Metts, A. V., Yarrington, J. S., Zinbarg, R., Hammen, C., Mineka, S., **Enders, C.**, & Craske, M. G. (2022). Early life adversity and risk for anxiety and depression: The role of interpersonal support. *Development and Psychopathology*, 1–13, Advanced online publication.

Du, H., **Enders, C.K.**, Keller, B.T., Bradbury, T., & Karney, B. (2021). A Bayesian latent variable selection model for nonignorable missingness. *Multivariate Behavioral Research*. Advanced online publication.

Levy, R., & **Enders, C.K.** (2021). Full conditional distributions for Bayesian multilevel models with additive or interactive effects and missing data on covariates. *Communications in Statistics*, Advanced online publication.

MacDonald, J.J., Jorge-Miller, A., **Enders, C.K.**, McCannel, T., Beran, T., & Stanton, A.L. (2021). Perceived and objective visual impairment predicting depressive symptoms across one year in uveal melanoma diagnostic biopsy: Optimism and pessimism as moderators. *Health Psychology*, *40*, 408-417.

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Ray, L.A., Green, R., **Enders, C.**, Leventhal, A.M., Grodin, E., Li, G., Lim, A., Hartwell, E., Venegas, A., Meredith, L., Nieto, S., Shoptaw, S., & Miotto, K. (2021). Efficacy of combining varenicline and naltrexone for smoking cessation and drinking reduction: A randomized clinical trial. *American Journal of Psychiatry*. Advanced Online Publication.

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Enders, C.K., Du, H., & Keller, B.T. (2020). A model-based imputation procedure for multilevel regression models with random coefficients, interaction effects, and non-linear terms. *Psychological Methods*, *25*, 88-112.

Mansolf, M., Jorgensen, T.D., & **Enders, C.K.** (2020). A multiple imputation score test for model modification in structural equation models. *Psychological Methods*, *25*, 393-411.

Di Giunta, L., Pastorelli, C., Thartori, E., Bombi, A.S., Baumgartner, E., Fabes, R.A., Martin, C.L., **Enders, C.K.** (2018). Trajectories of Italian children's peer rejection: Associations With aggression, prosocial behavior, physical attractiveness, and adolescent adjustment. *Journal of Abnormal Child Psychology*, *46*, 1021-1035.

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Juvonen, J. Lessard, L., Schacter, H.L., & **Enders, C.** (2018). The effects of middle school weight climate on youth with higher body weight. *Journal of Research on Adolescence*, *29*, 466-479.

Enders, C.K., Keller, B.T., & Levy, R. (2018). A fully conditional specification approach to multilevel imputation of categorical and continuous variables. *Psychological Methods*, *23*, 298-317.

Enders, C.K., & Mansolf, M. (2018). Assessing fit of structural equation models with multiply imputed data. *Psychological Methods*, *23*, 76-93.

Smith, D.S., Schacter, H.L., **Enders, C.**, & Juvonen, J. (2018). Gender norm salience across middle schools: Contextual variations in associations between gender typicality and socioemotional distress. *Journal of Youth and Adolescence*, *47*, 947-960.

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Brincks, A.M., **Enders, C.K.**, Llabre, M.M., Bulotsky-Shearer, R.J., Prado, G., & Feaster, D.J. (2017). Centering predictor variables in three-level contextual models. *Multivariate Behavioral Research*, 52, 149-163.

Enders, C.K. (2017). Multiple imputation as a flexible tool for missing data handling in clinical research. *Behaviour Research and Therapy*, *98*, 4-18.

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Liu, Y., & **Enders, C. K.** (2017). Evaluation of multi-parameter test statistics for multiple imputation. *Multivariate Behavioral Research*, 52, 371-390.

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McPherson, S., Barbosa-Leiker, C., Mamey, M.R., McDonell, M., **Enders, C.K.**, Roll, J. (2015). A missing not at random (MNAR) and missing at random' (MAR) growth model comparison with a Buprenorphine/Naloxone clinical trial. *Addiction*, *110*, 51-58.

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Wu, W., Jia, F., & **Enders, C. K.** (2015). A comparison of imputation strategies to ordinal missing data for Likert scale variables. *Multivariate Behavioral Research*, *50*, 484-503.

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Cavendish, W., Montague, M., **Enders, C.**, & Dietz, S. (2014). Mothers' and adolescents' perceptions of family environment and adolescent social-emotional functioning. *Journal of Child and Family Studies*, 23, 52-66.

Karoly, P., Okun, M. A., **Enders, C.**, & Tennen, H. (2014). The effects of pain intensity on goal schemas and goal pursuit: A daily diary study. *Health Psychology*, *33*, 968-976.

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Montague, M., Krawec, J., **Enders, C.**, & Dietz, S. (2014). The effects of cognitive strategy instruction on math problem solving of middle school students of varying abilities. *Journal of Educational Psychology*, *106*, 469-481.

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Enders, C.K. (2011). Analyzing longitudinal data with missing values. *Rehabilitation Psychology*, *56*, 267-288.

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Enders, C.K., & Gottschall, A.C. (2011). On the use of multiple imputation with multiple group latent variable models. *Structural Equation Modeling: A Multidisciplinary Journal*, *18*, 35-54.

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Enders, C.K., & Bandalos, D.L. (2001). The relative performance of full information maximum likelihood estimation for missing data in structural equation models. *Structural Equation Modeling: A Multidisciplinary Journal, 8,* 430-457.

Enders, C.K., & Bandalos, D.L. (1999). The effects of heterogeneous item distributions on reliability. *Applied Measurement in Education,12,* 133-150.
Wise, S.L., Finney, S.J., **Enders, C.K.**, Freeman, S.A. & Severance, D.D. (1999). Examinee judgments of changes in item difficulty: Implications for item review in computerized adaptive testing. *Applied Measurement in Education, 12,* 185-198.

Bandalos, D.L. & **Enders, C.K.** (1996). The effects of non-normality and number of response categories on reliability. *Applied Measurement in Education, 9,* 151-160.

Impara, J.C., **Enders, C.K.**, & Beecham, B. (1996). Impact on instructional time on student participation in school-sponsored activities: A Nebraska study. *The High School Journal, 79,* 305-314.

Impara, J.C., Beecham, B, & **Enders, C.** (1996). Survey of Nebraska high schools: Relationship between participation in activities and school size. *Leadership Nebraska, 5,* 42-45.

Workshops and Colloquia

Enders, C.K. (2022, June). *Modern Missing Data Analysis.* Three-day workshop presented through CenterStat.org (held online over Zoom).

Enders, C.K. (2022, May). *Modern Missing Data Analyses.* Professional development workshop presented at the annual meeting of the Association for Psychological Science, Chicago, IL.

Enders, C.K. (2021, June). *Longitudinal Missing Data.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ (held online over Zoom).

Enders, C.K. (2020, June). *Analyzing PATH study data: Addressing challenges of longitudinal epidemiologic studies given study design complexities and missing data.* Webinar presented to the Center for Coordination of Analytics, Science, Enhancement, and Logistics in Tobacco Regulatory Science.

Enders, C.K. (2020, June). *Latent growth models in structural equation modeling.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ (held online over Zoom).

Enders, C.K. (2020, June). *Approaches to handling incomplete data.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ (held online over Zoom)

Enders, C.K. (2020, March). *Missing data analysis.* Three-day workshop presented at the Sanford School of Social and Family Dynamics, Arizona State University, Tempe, AZ.

Enders, C.K. (2019, December). *Challenges, options, and solutions to handling missing data when conducting analyses.* Webinar presented to the Center for Coordination of Analytics, Science, Enhancement, and Logistics in Tobacco Regulatory Science.

Enders, C.K. (2019, November). *Missing data handling for regression models with interactions, random coefficients, and non-linear terms.* Colloquium presented to the Department of Psychology, Notre Dame, IN.

Enders, C.K. (2019, October). *Missing data analysis*. Three-day workshop presented at the StatsCamp.org Summer Camp, UCLA, Los Angeles, CA.

Enders, C.K. (2019, June). *Missing data analyses*. Two-day workshop presented at the Pickering Centre for Research in Human Development, Carleton University, Ottawa, Canada.

Enders, C.K. (2019, June). *Introduction to missing data*. Diversity Program Consortium Workshop, University of Texas El Paso, El Paso, TX.

Enders, C.K. (2019, May). *Latent growth models in structural equation modeling*. APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2019, May). *Approaches to handling incomplete data.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2019, May). *Multiple imputation for multilevel data structures*. Colloquium presented to the Department of Biostatistics, UCLA, Los Angeles, CA.
Enders, C.K. (2019, April). *Multiple imputation for complex organizational data structures.* Colloquium presented to the Consortium for the Advancement of Research Methods and Analysis, University of Nebraska, Lincoln, NE.

Enders, C.K. (2019, April). *An introduction to multiple imputation for educational research.* Professional development workshop presented at the annual meeting of the American Educational Research Association, Toronto, CA.

Enders, C.K. (2019, April). *A model-based imputation procedure for regression models with interactions, random coefficients, and non-linear terms*. Colloquium presented to the Psychology Department, University of Southern California, Los Angeles, CA.

Enders, C.K. (2019, January). *Multiple imputation with longitudinal data*. Research Workshop of the Israel Science Foundation, Tel Aviv, Israel.

Enders, C.K. (2018, August). *Introduction to multiple imputation for psychological research.* Continuing education workshop presented at the annual meeting of the American Psychological Association, San Francisco, CA.

Enders, C.K. (2018, August). *An introduction to longitudinal growth models*. Colloquium presented at the University of California Consortium on the Developmental Science of Adolescence, Los Angeles, CA.

Enders, C.K. (2018, June). *Missing data analysis*. Workshop presented to the Virginia Education Science Training (VEST) Fellowship Program, University of Virginia.

Enders, C.K. (2018, May). *Latent growth models in structural equation modeling.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2018, May). *Approaches to handling incomplete data.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2017, November). *Applied missing data*. Advanced methodology workshop presented at the annual meeting of the Association for Cognitive and Behavioral Therapies, San Diego, CA.

Enders, C.K. (2017, September). *Missing data analysis*. Workshop presented at the StatsCamp.org Summer Camp, Brea, CA.

Enders, C.K. (2017, May). *Latent growth models in structural equation modeling.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2017, May). *Approaches to handling incomplete data.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2017, May). *Multiple imputation for multilevel data*. Workshop presented at the Modern Modeling Methods conference, Storrs, CT.

Enders, C.K. (2017, February). *An introduction to multiple imputation and its application.* Workshop presented at the University of California Riverside, Riverside, CA.

Enders, C.K. (2017, February). *A gentle introduction to multiple imputation*. Colloquium presented to the Center for Assessment and Research Studies, James Madison University, Harrisonburg, VA.

Enders, C.K. (2016, December). *At the cutting edge: Demonstrations of statistical software developed through the stats & methods program*. Software demonstration presented at the 2016 NCER/NCSER Principal Investigators Meeting, Washington, D.C.

Enders, C.K. (2016, November). *An introduction to multiple imputation and its application*. Workshop presented at the Ohio State University, Columbus, OH.

Enders, C.K. (2016, October). *An introduction to modern missing data methods*. Workshop presented at the Francis McClelland Institute, University of Arizona, Tucson, AZ.

Enders, C.K. (2016, September). *Missing data analysis*. Workshop presented at the StatsCamp.org Summer Camp, Brea, CA.

Enders, C.K. (2016, May). *An introduction to modern missing data methods*. Workshop presented at the University of California Santa Barbara, Santa Barbara, CA.

Enders, C.K. (2016, May). *Applied missing data analysis*. Statistics workshop presented at the annual meeting of the Western Psychological Association, Los Angeles, CA.

Enders, C.K. (2016, May). *Latent growth models in structural equation modeling.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2016, May). *Approaches to handling incomplete data.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2015, November). *Missing data analysis*. Workshop presented at the University of Miami, Coral Gables, FL.

Enders, C.K. (2015, October). *An introduction to missing data analysis*. Workshop presented at the University of Nebraska, Lincoln, NE.

Enders, C.K. (2015, September). *An introduction to missing data analysis*. Workshop presented at the University of California-Merced, Merced, CA.

Enders, C.K. (2015, August). *An introduction to missing data analyses*. Workshop presented to the Intercampus Consortium on Health Psychology, Irvine, CA.

Enders, C.K. (2015, June). *Applied missing data analysis*. Workshop presented at the Portland State University Summer Quantitative Methods Series, Portland, OR.

Enders, C.K. (2015, May). *Latent growth models in structural equation modeling.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2015, May). *Approaches to handling incomplete data.* APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Tempe, AZ.

Enders, C.K. (2015, April). *Modern missing data handling*. Colloquium presented to the Quantitative Psychology Program, University of Southern California, Los Angeles, CA.

Enders, C.K. (2014, November). *Missing data analyses*. Colloquium presented to the Secondary Analysis of Strengthening Families Datasets Grantees Meeting, Washington, DC.

Enders, C.K. (2014, June). *Missing data analyses*. Workshop presented to the Virginia Education Science Training (VEST) Fellowship Program, University of Virginia.

Enders, C.K. (2014, June). *Missing data analyses*. Workshop presented to the American Legacy Foundation, Washington, D.C.

Enders, C.K. (2014, March). *Multiple imputation for multilevel models*. Colloquium presented to the Center for Assessment and Research Studies, James Madison University.

Enders, C.K. (2012, September). *A gentle introduction to Bayesian statistics*. Colloquium presented to the Department of Psychology, Utah State University.

Enders, C.K. (2012, September). *An introduction to modern missing data techniques*. Workshop presented at the Utah State University.

Enders, C.K. (2012, June). *An introduction to modern missing data techniques*. Workshop presented at the Texas A&M University Summer Statistics Workshop, College Station, TX.

Enders, C.K. (2012, May). *A gentle introduction to Bayesian statistics*. Colloquium presented to the Center for Assessment and Research Studies, James Madison University.

Enders, C.K. (2012, February). *An introduction to modern missing data techniques*. Workshop presented at Case Western Reserve University.

Enders, C.K. (2011, May). *Analysis of missing data*. Statistics workshop presented at the annual meeting of the Western Psychological Association, Los Angeles, CA.

Enders, C.K. (2011, June). *An introduction to modern missing data techniques*. Workshop presented at Brigham Young University, Provo, UT.

Enders, C.K. (2011, June). *An introduction to modern missing data techniques*. Workshop presented at the Portland State University Summer Quantitative Methods Series, Portland, OR.

Enders, C.K. (2011, September). *An introduction to modern missing data techniques*. Workshop presented at the Texas A&M University Summer Statistics Workshop, College Station, TX.

Enders, C.K. (2011, October). *How to deal with missing data: An overview of maximum likelihood missing data handling*. Pre-conference workshop presented at the third Dutch Mplus User's Group meeting, Utrecht, Netherlands.

Enders, C.K. (2011, November). *An introduction to modern missing data techniques*. Advanced methodology workshop presented at the annual meeting of the Association for Cognitive and Behavioral Therapies, Toronto, Canada.

Enders, C.K. (2011, December). *Missing data analyses with multiple imputation*. Workshop presented to the School of Education, University of Miami.

Enders, C.K. (2010, March). *Analysis of missing data*. Colloquium presented to the Department of Psychology, University of South Carolina.

Enders, C.K. (2010, April). *Analysis of missing data*. Professional development workshop presented at the annual meeting of the American Educational Research Association, Denver, CO.

Enders, C.K. (2010, June). *Missing data analyses*. Colloquium presented to the Secondary Analysis of Data for Childcare Grantees Meeting, Washington, DC.

Enders, C.K. (2010, June). *Analysis of missing data*. Workshop presented to the Hispanic Health Disparities Research Center, University of Texas – El Paso, El Paso, TX.

Enders, C.K. (2009, May). *Multilevel modeling*. Pre-conference workshop presented at the annual meeting of the Society for Prevention Research pre-conference workshop, Washington, DC.

Enders, C.K. (2008, April). *Analyzing missing data using maximum likelihood estimation*. Colloquium presented to the College of Education, University of Georgia, Athens, GA.

Enders, C.K. (2008, April). *Analysis of missing data*. Professional development workshop presented at the annual meeting of the American Educational Research Association, New York, NY.

Enders, C.K. (2008, August). *Introduction to modern missing data techniques*. Professional development workshop presented at the annual meeting of the American Psychological Association, Boston, MA.

Enders, C.K. (2008, November). *Planned missing data designs*. Colloquium presented to the Department of Psychology, University of Kansas.

Enders, C.K. (2007, April). *Analysis of missing data*. Professional development workshop presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Enders, C.K. (2007, May). *Analysis of missing data*. Statistics workshop presented at the annual meeting of the Western Psychological Association, Vancouver, Canada.

Enders, C.K. (2006, May). *Analyzing missing data using maximum likelihood estimation*. Colloquium presented to the Center for Assessment and Research Studies, James Madison University.

Enders, C.K. (2006, April). *Analyzing structural equation models with missing data*. Training session presented as a part of the AERA extended course, Structural Equation Modeling: A Second Course, annual meeting of the American Educational Research Association, San Francisco, CA.

Enders, C.K. (2005, January). *The use of hierarchical linear modeling in behavioral and social science research*. Colloquium presented to the Nebraska Center for Research on Children, Youth, Families, and Schools, University of Nebraska.

Enders, C.K. (2002, April). *Structural equation modeling: An overview of path analysis, confirmatory factor analysis, and full structural models*. Colloquium presented to the faculty of the School of Business, Miami University (Ohio).

Enders, C.K. (2002, September). *Hierarchical linear modeling: The analysis of student-level and school-level influences on educational outcomes*. Colloquium presented to the Center for Research, University of Miami.

Enders, C.K. (2002, November). *Hierarchical linear modeling: Analyzing repeated measures data using growth curve analyses*. Colloquium presented to the Center for Research, University of Miami.

Conference Presentations

Alacam, E., Du, H., & **Enders, C. K.** (2020, July). *Novel Bayesian model-based imputation method for missing items in questionnaires*. Talk to be presented at the 85th annual Meeting of the Psychometric Society (virtual).

Du, H., & **Enders, C.K.** (2019, July). *A latent variable approach for handing non-ignorable missingness*. Paper presented at the 2019 Meeting of the International Society for Data Science and Analytics, Nanjing, China.

Enders, C.K. (2019, April). *Multiple imputation for complex data structures.* Keynote address presented to the Joint Special Interest Group Business Meeting at the annual meeting of the American Educational Research Association, Toronto, CA.

Enders, C.K., Du, H., & Keller, B. (2019, April). *Model-based multiple imputation for multilevel analyses.* Paper presented at the annual meeting of the American Educational Research Association, Toronto, CA.

Vera, J.D., & **Enders, C.K.** (2019, April). *Is item-level imputation always better? An investigation of wave-missing data in growth* models. Paper presented at the annual meeting of the American Educational Research Association, Toronto, CA.

Enders, C.K. (2019, March). *Multiple imputation for moderated regression analyses.* Paper presented at the American Psychological Association Division 5 Mini-Conference: Blending Psychology and Methods: A Conference in Honor of Professor Leona Aiken, Tempe, AZ.

Keller, B.T., Du, H., & **Enders, C.K.** (2017, October). *A fully conditional specification approach to multilevel multiple imputation with latent cluster means.* Poster presented at the annual meeting of the Society for Multivariate Experimental Psychology, Albuquerque, NM.

Enders, C., Du, H., & Keller, B. (2017, October). *A fully Bayesian imputation procedure for random coefficient models (and other pesky product terms).* Paper presented at the annual meeting of the Society for Multivariate Experimental Psychology, Minneapolis, MN.

Enders, C.K. (2015, October). *Assessing the fit of structural equation models with multiply imputed data.* Paper presented at the annual meeting of the Society for Multivariate Experimental Psychology, Los Angeles, CA.

Keller, B.T., & **Enders, C.K.** (2014, May). *A latent variable chained equations approach for multilevel multiple imputation.* Paper presented at the Modern Modeling Methods Conference, Storrs, CN.

Enders, C.K. (2013, April). *Multiple imputation for multilevel models.* Invited paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Cham, H., Baraldi, A. N., & **Enders, C. K.** (2012, October). *Applying maximum likelihood estimation and multiple imputation to moderated regression models with incomplete predictor variables.* Poster presented at 2012 Society of Multivariate Experimental Psychology Student Pre-Conference, Vancouver, British Columbia, Canada.

Enders, C.K. (2012, October). *A chained equations multiple imputation approach for multilevel data with incomplete categorical and continuous variables*. Paper presented at the annual meeting of the Society for Multivariate Experimental Psychology.

Baraldi, A. N., Cham, H. C., & **Enders, C. K.** (2012, May). *Estimating moderated regression models with incomplete predictor variables*. Paper presented at the Modern Modeling Methods Conference, Storrs, CT.

Enders, C.K. (2011, November). *An introduction to non-ignorable missing data analyses in Mplus*. Keynote presentation at the third Dutch Mplus User's Group meeting, Utrecht, Netherlands.

Mistler, S.A., & **Enders, C.K.** (2011, August). *Applying multiple imputation to multilevel data sets: A practical guide*. Paper presented at the annual meeting of the American Psychological Association, Washington, D.C.

Henry, G. K., Heilbronner, R. L., Mittenberg, W., **Enders, C.,** Stevens, A. & Dux, M. (2009, November). *Noncredible performance in individuals with external incentives: Empirical derivation of the Psychosocial Distress Scale*. Paper presented at the annual meeting of the National Academy of Neuropsychology, New Orleans, LA.

Henry, G. K., Heilbronner, R. L., Mittenberg, W., **Enders, C.,** & Myers, A. (2009, November). *The MMPI-2 and cognitive response validity: Development of the Cognitive Complaints Scale*. Paper presented at the annual meeting of the National Academy of Neuropsychology, New Orleans, LA.

Enders, C.K. (2008, April). *On the use of multiple imputation with multiple group latent variable models*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.

Enders, C.K., & Thoemmes, F. (2007, April). *A structural equation model for testing whether data are missing completely at random*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Enders, C.K., & Tofighi, D. (2007, April). *Centering predictor variables in cross-sectional multilevel models: A new look at an old issue*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Enders, C.K., & Tofighi, D. (2006, May). *Determining the number of classes in a growth mixture model analysis*. Paper presented at the annual conference of the Center for Integrated Latent Variable Research, College Park, MD.

Enders, C.K., & Tofighi, D. (2006, April). *Determining the number of classes in a growth mixture model analysis*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.

Enders, C.K., & Tofighi, D. (2005, April). *The impact of misspecifying class-specific residual variances in growth mixture models*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.

Montague, M., **Enders, C**., & Castro, M. (2005, April). *A longitudinal student of students at risk for learning, behavioral, and emotional disorders*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.

Victorson, D., **Enders, C.**, Burnett, K., Farmer, L., Barocas, J., & Lauzon, J. (2004, November). *Assessing peritraumatic responses following traumatic physical injury: Development of the injury evaluation index (IEI)*. Poster presented at the annual meeting of the International Society for Traumatic Stress Studies, New Orleans, LA.

Enders, C.K., Peugh, J.L. (2004, April). *Missing data in educational research: A review of reporting practices and suggestions for improvement*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

Enders, C.K., Peugh, J.L. (2004, April). *Using an EM covariance matrix to estimate structural equation models with missing data: Choosing an adjusted sample size to improve the accuracy of inferences*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.

Enders, C.K., & Finney, S.J. (2003, April). *Examining the sensitivity of fit indices to model misspecification and complexity when modeling Likert data: An examination of recommended cutoffs*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Enders, C.K., & Laurenceau, J.P. (2003, April). *The impact of early attrition on latent growth model estimation*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Deaktor, R.A., Lee, O., & **Enders, C.K.** (2003, April). *The impact of an instructional intervention on science and literacy achievement among linguistically diverse elementary students*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Doninger, G., **Enders C.**, & Burnett, K. (2003, August). *The relationship between feminist identity and eating disorders among athletes*. Poster presented at the annual meeting of the American Psychological Association, Toronto, Canada.

Hart, J.E., Lee, O., & **Enders, C.K.** (2003, April). *Promoting science and literacy among linguistically diverse students: Impact of instructional intervention on teacher knowledge, beliefs, and practices.* Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

Victorson, D., Salinas-Farmer, L., St. John, D., Burnett, K., **Enders, C.**, Ouellette, E.A. (2003, August). *Coping processes and PTSD symptomatology following traumatic physical injury.* Poster presented at the annual meeting of the American Psychological Association, Toronto, Canada.

Enders, C.K. (2002, April). *Opportunities for applied educational research using structural equation modeling.* Invited presentation to Division D Graduate Student Seminar, American Educational Research Association, New Orleans, LA.

Enders, C.K. (2002, April). *A comparison of rescaled statistics and bootstrap methods for use with structural equation models with nonnormal missing data.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Enders, C.K. (2002, April). *Using a maximum likelihood missing data algorithm to estimate coefficient alpha for scales with item-level missing data.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Enders, C., McMahon, R., & Vaughan, E. (2002, August). *Predictors of change in employment problem severity.* Paper presented at the Annual Meeting of the American Psychological Association, Chicago.

Rangel, A., **Enders, C.K.**, & Delgado, R. (2002, April). *The development of the Stereotype Threat Scale: Measuring and testing the theoretical construct of stereotype threat.* Poster session presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Enders, C.K. (2001, April). *Applying the Bollen-Stine bootstrap for goodness-of-fit measures to structural equation models with missing data.* Paper presented at the annual meeting of the American Educational Research Association, Seattle, WA.

Enders, C.K. (2000, April). *The relative performance of missing data algorithms in structural equation models with nonnormal data.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Enders, C.K. (2000, April). *The performance of maximum likelihood missing data algorithms for multiple regression.* Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.

Enders, C.K., & Bandalos, D.L. (1999, April). *The relative efficacy of full information maximum likelihood estimation for missing data in structural equation models.* Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.

Enders, C.K. (1999, April). *Teaching statistical power: Providing a conceptual overview using an analogy.* Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.

Giraud, G. & **Enders, C.K.** (1998, April). *The effects of cooperative testing in an introductory statistics course.* Paper presented at the annual meeting of the National Council on Measurement in Education, San Diego, CA.

Wise, S.L., Freeman, S.A., Finney, S.J., **Enders, C.K.**, & Severance, D.D. (1997, April). *The accuracy of examinee judgments of relative item difficulty: Implications for computerized adaptive testing.* Paper presented at the annual meeting of the National Council on Measurement in Education, Chicago, IL.

Bandalos, D.L. & **Enders, C.K.** (1996, April). *The effects of non-normality of the underlying and observed distributions on dimensionality inferred from confirmatory factor analyses.* Paper presented at the annual meeting of the National Council on Measurement in Education, New York, NY.

Bandalos, D.L. & **Enders, C.K.** (1995, April). *The effects of number of response categories and non-normality on reliability.* Paper presented at the annual meeting of the National Council on Measurement in Education, San Francisco, CA.

Work on Funded Projects (Pre-UCLA)

Investigators: Linda Luecken, Keith Crnic, Nancy Gonzales, Kathy Lemery, Dave MacKinnon, and Craig Enders (Co-investigator)
Title: Emerging Regulatory Capacity in Low-income Mexican American Children
Funding Source: NICDH
Dates: 2014-2019
Amount: $2,785,548
Recognition: 5%

Investigators: Kathy Johnson, Adam Cohen, Morris Okun, and Craig Enders (Co-investigator)
Title: Motivational antecedents to beliefs about God, moral concerns, and values
Funding Source: John Templeton
Dates: 2014-2017
Amount: $376,174
Recognition: 5%

Investigators: Art Glenberg, Maria Restrepo, and Craig Enders (Co-investigator)
Title: EMBRACEing English Language Learners with Technology
Funding Source: NSF
Dates: 2014-2017
Amount: $1,599,999 (requested)
Recognition: 0%

Investigators: Keith Crnic, Linda Luecken, Nancy Gonzalez, and Craig Enders (Co-investigator)
Title: Coregulatory Processes and Postpartum Depression in Mexican Americans
Funding Source: NIH
Dates: 2010-2013
Amount: $2,019,416
Recognition: 10%

Investigators: David MacKinnon, Laurie Chassin, Craig Enders (Co-investigator), Irwin Sandler, Jenn-Yun Tein, and Steve West
Title: Estimating Mediation Effects in Prevention Studies
Funding Source: NIH-NIDA
Dates: 2009-2014
Amount: $1,406,854
Recognition: 8%

Investigators: Adam Cohen and Craig Enders (Co-investigator)
Title: Ethnic and Religious Influences On Forgiveness For Mass Atrocities
Funding Source: NSF
Dates: 2010-2013
Amount: $40,000
Recognition: 10%

Investigators: Paul Karoly, Morris Okin, and Craig Enders (Co-investigator)
Title: Chronic pain and the Enterprise of Living: Self-Regulatory and Goal Mechanisms
Funding Source: NIH
Dates: 2008-2010
Amount: $417,913
Recognition: 10%

Investigators: Heather Bimonte-Nelson and Craig Enders (Co-investigator)
Title: Variations in Hormone Therapy: Effects on Cognition and Markers of Brain Aging
Agency: National Institute on Aging
Dates: September 2007-2010
Amount: $1.8 million
Recognition: 0%

Investigator: Craig Enders (Principal Investigator)
Title: The Performance of Maximum Likelihood Estimation for Multiple-Item Scales with Missing Data
Funding Source: University of Miami, James W. McLamore Summer Awards
Dates: 2000
Amount: $9700
Recognition: 100%

Investigators: Susan Sheridan, Todd Glover, and Craig Enders (Consultant*)
Title: Evaluation of the Efficacy of CBC for Addressing Disruptive Behaviors of Children
At-Risk for Academic Failure
Agency: Institute of Education Sciences
Dates: June 2005-2007
Amount: $1.4 million

Investigator: Susan Sheridan and Craig Enders (Consultant*)
Title: Parent Engagement and Child Learning Birth to Five
Agency: NIH/NICHD
Dates: January 2005-2008
Amount: $5 million

Investigator: Jordan Green and Craig Enders (Consultant*)
Title: Early Speech Motor Development
Agency: NIH/NIDCD
Dates: September 2004-2009
Amount: $1.8 million

* The college norm at the University of Nebraska was to list methodologists as consultants rather than as co-investigators. The consultant role on these projects is equivalent to co-investigator in every respect (e.g., duties included conceptualizing the design and analyses, conducting power analyses, drafting sections of the grant, overseeing ongoing methodological issues, contributing to manuscripts, etc.).

National Service Activities

· Associate Editor, *Journal of School Psychology*, 2007-2011
· Editorial Board, *Educational and Psychological Measurement*, 2001-present
· Editorial Board, *Multivariate Behavioral Research*, 2019-present
· Editorial Board, *Psychological Methods*, 2003-2004, 2007-present
· Editorial Board, *Measurement in Physical Education and Exercise Science*, 2004-2011
· Grant panel reviewer for Institute of Educational Sciences, 2016-present

- Ad Hoc Reviewer: *Applied Measurement in Education, American Educational Research Journal, Behavior Research Methods, British Journal of Mathematical and Statistical Psychology, Child Development Perspectives, Drug and Alcohol Dependence, Educational Psychology Review, International Journal of Behavioral Development, Journal of Abnormal Psychology, Journal of Adolescence, Journal of Consulting and Clinical Psychology, Journal of Educational and Behavioral Statistics, Journal of Educational Measurement, Journal of Family Issues, Journal of Mixed Methods Research, Journal of Modern Statistical Methods, Journal of Research on Adolescence, Multivariate Behavioral Research, Prevention Science, Psychology of Addictive Behaviors, Psychometrika, School Psychology Review, Sociological Methods and Research, Structural Equation Modeling: An Interdisciplinary Journal, Behavioral Research Methods, BMC Medical Research Methodology*
- Secretary-Treasurer, Structural Equation Modeling Special Interest Group, American Educational Research Association, 1998-2003
- Co-chair, Structural Equation Modeling Special Interest Group, American Educational Research Association, 2006-2008

University and Departmental Service

- Teaching Points Committee (2020)
- Quantitative Area Chair, Psychology Department, UCLA, 2019-current
- College of Life Sciences Excellences Awards Committee, UCLA, 2018-current
- Executive Committee, Psychology Department, UCLA, 2018-current
- Faculty Awards Committee, Psychology Department, UCLA, 2015-current
- Merit Review Committee (alternate), Psychology Department, UCLA, 2017-current
- Co-organized quantitative recruitment, Psychology Department, UCLA, 2015-current
- Lecturer search committee, Psychology Department, UCLA, 2016
- Quantitative search committee, Psychology Department, UCLA, 2016-2017
- Ad hoc promotion committee, Psychology Department, UCLA, 2016
- Area head, Quantitative Psychology Program, Arizona State University, Spring 2011
- Psychology Department Technology Committee, Arizona State University, 2008-present
- Psychology Department Faculty Evaluation Committee (FEC), Arizona State University, 2006-2008
- Psychology Department Planning and Advisory Committee (PAC), Arizona State University, 2006-2007
- Faculty Search Committee, Educational Psychology, University of Nebraska, 2004-2005.
- Faculty supervisor, Nebraska Evaluation and Research (NEAR) Center, University of Nebraska, 2003-2005.
- Faculty Search Committee, School of Education, University of Miami, 2002, 2003.
- School Council Committee, School of Education, University of Miami, 2002-2003
- Technology Committee, School of Education, University of Miami, 2000-2003

Professional Organizations

· American Educational Research Association
· American Psychological Association, Division 5
· Association for Psychological Science
· Society for Multivariate Experimental Psychology

Professional Honors

· Listed as 10th highest ranking among researchers in the Social Sciences Methods category in "A Standardized Citation Metrics Author Database Annotated for Scientific Field" (Ioannidis, Baas, Klavans, & Boyack, 2019)
· Elected as Fellow of the American Psychological Association (Division 5), 2019
· Awarded the James McKeen Cattell Fund Fellowship, 2011
· Elected to the Society for Multivariate Experimental Psychology, 2011
· Nominated for the Excellence in Teaching Award, University of Miami, 2002
· Selected as a finalist for the AERA Mary Catherine Ellwein Outstanding Dissertation Award, 2001
·

Teaching

· Attended day-long CEILS Annual Faculty Workshop on Best Practices in Teaching (September 17, 2015)
· Attended UCLA Department of Psychology Teaching Improvement Program colloquium presentation by Danny Oppenheimer (May 11, 2017)
· Attended two-day HHMI Institute for Inclusive Education workshop (May 10-11, 2018)

PSYCH100A Psychological Statistics, UCLA
PSYCH142H Advanced Statistical Methods in Psychology, UCLA
PSYCH256A Introduction to Multilevel Modeling, UCLA
PSYCH258   Missing Data Analysis, UCLA
PSYCH258   Longitudinal Data Analysis, UCLA

PSY230   Introductory Statistics, Arizona State University
PSY330   Intermediate Statistics, Arizona State University
PSY530   Analysis of Variance, Arizona State University
PSY537   Longitudinal Growth Modeling, Arizona State University
PSY591   Missing Data, Arizona State University
PSY591   Multilevel Modeling, Arizona State University
PSY591   Quantitative Seminar

EDPS459   Introductory Statistics, University of Nebraska

EDPS870	Introduction to Educational Measurement, University of Nebraska
EDPS941	Intermediate Statistics, University of Nebraska
EDPS945	Computer Data Analysis, University of Nebraska
EDPS971	Structural Equation Modeling, University of Nebraska
EDPS972	Multivariate Analysis, University of Nebraska
EDPS987L	Longitudinal Data Analysis, University of Nebraska

EPS553	Introductory Statistics, University of Miami
EPS568	Computer Applications for Research, University of Miami
EPS661	Advanced Tests and Measurements, University of Miami
EPS670	Introduction to Research, University of Miami
EPS671	Intermediate Statistics: ANOVA Methods, University of Miami
EPS672	Intermediate Statistics: Regression Methods, University of Miami
EPS673	Advanced Multivariate Statistics, University of Miami

Mentoring

Current Ph.D. Advisees

Egamaria Alacam, Ph.D., UCLA (co-mentor with Han Du)
Juan Diego Vera, Ph.D., UCLA
Michael Woller

Former Advisees

Brian Keller, Ph.D., UCLA
Amanda Baraldi, Ph.D., Arizona State University
Amanda Gottschall, M.A., Arizona State University
Brian Keller, Ph.D., UCLA
Gina Mazza, M.A., Arizona State University
Stephen Mistler, Ph.D., Arizona State University
James Peugh, Ph.D., University of Nebraska
Davood Tofighi, M.A., University of Nebraska
Davood Tofighi, Ph.D., Arizona State University

UCLA Student Committees

Jessica Fossum (Quantitative, PhD)
Kendra Knudsen (Clinical, PhD)
Christina Bird (Clinical, PhD)
James McDonald (Clinical, PhD)
Shuai Li (Education, PhD)
Dale Kim (Quantitative, PhD)
Danielle Smith (Developmental, PhD)

Andrew Sanders (Developmental, PhD)
Leah Lessard (Developmental, PhD)
Wendy Christiansen (Quantitative, PhD)
Emily Escovar (Clinical, PhD).
Hannah Schacter (Clinical, PhD)
Siavash Jalal (Statistics, PhD)
Andrew Moskowitz (Quantitative, PhD)
Erin Arruda (Quantitative, PhD)