

Emilio Ferrer
Curriculum Vitae

Department of Psychology
University of California, Davis
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Education

Ph.D. Quantitative Psychology. University of Virginia, 2003.
M.S. Social Psychology of Sports and Physical Activity. University of Oregon, 1997.
Universidad de Alicante, Spain. Sociology, 1994.
Licenciatura. Physical Education. Universidad Politécnica de Madrid, Spain, 1989.

PROFESSIONAL HISTORY

Employment

2012 – Professor Department of Psychology, University of California, Davis
2008 – 2012 Associate Professor Department of Psychology, University of California, Davis
2003 – 2008 Assistant Professor Department of Psychology, University of California, Davis
2002 – 2003 Postdoctoral Fellow Institute for Developmental & Health Research Methodology
University of Virginia

Teaching – UC Davis Courses

Applied Multivariate Analysis (Graduate)
Applied Longitudinal Data Analysis (Graduate)
Longitudinal Methodology in Developmental Research (Graduate)
Statistical Analysis in Psychology (Graduate)
Structural Equation Modeling (Graduate)
Statistical Analysis of Psychological Data (Undergraduate)

Teaching – Workshops

2002 – 2014 Instructor American Psychological Association Advanced Training Institute on
Longitudinal Methods, University of Virginia and University of California, Davis

July 2013 Instructor Workshop on Longitudinal Data Analysis, Summer Institute in Social
and Personality Psychology, Society for Personality and Social Psychology,
University of California, Davis

2010 – 2013 Instructor Longitudinal Research Institute, Advanced Longitudinal Data Analysis
Workshop, University of California, Davis

- July 2011 Instructor Course on Latent Growth Curve Models, Congreso de Metodología de las Ciencias Sociales y de la Salud, Universidad del País Vasco, San Sebastian, Spain
- April 2010 Instructor Workshop on Advanced Longitudinal Data Analysis, Center for Research in Pedagogy and Practice, National Institute of Education, Singapore
- August 2005 Instructor Workshop on Longitudinal Data Analysis, Curry School of Education, University of Virginia
- June 2005 Instructor Advanced Training Institute on Longitudinal Methods, University of Southern California
- April 2005 Instructor Applied Longitudinal Data Analysis
Bay Area Affective Science Training Program (Stanford University, UC Berkeley, UC Davis, UC San Francisco)

University Service – Department of Psychology UC Davis

- 2014 – 2017 Head, Quantitative Psychology Area
- 2014 – 2015 Chair, Quantitative Faculty Search Committee
- 2013 – 2014 Member, Social-Personality Faculty Search Committee
- 2006 – 2011 Head, Quantitative Psychology Area
- 2008 – 2011 Member, Executive Committee
- 2006 – 2009 Chair, Graduate Admissions Committee
- 2007 – 2009 Member, Undergraduate Advising Committee
- 2004 – 2007 Chair, Undergraduate Curriculum Committee
- 2006 – 2008 Member, Developmental Faculty Search Committee
- 2005 – 2006 Member, Quantitative Faculty Search Committee

University Service – Graduate Group in Biostatistics UC Davis

- 2011 – Member, Graduate Group in Biostatistics
- 2011 – Member, Committee of Master’s Examination in Biostatistics
- 2013 – Member, Admissions and Awards Committee in Biostatistics

University Service – Other

- 2012 – Member, Steering Committee, University of California, Davis – Madrid Branch Campus Initiative
- 2012 – 2013 Member, Graduate Council Student Committee
- 2012 – 2013 Reviewer, Graduate Fellowships

Outside Service

- 2013 – Member, Dissertation Grants Committee, Society of Multivariate Experimental Psychology
- 2007 – Member, Research Review Board, National Collegiate Athletic Association
- 2011 Invited Participant, Cognition Workshop for the NICHD Vision, National Institute of Child Health and Human Development

Community Service

2010 – Coach, American Youth Soccer Organization

Consultation

2014 Consultant, National Institute of Education, Singapore
 2013 – Consultant, California Department of Corrections and Rehabilitation
 2013 – Consultant, Office of the Attorney General
 2010 Consultant, National Institute of Education, Singapore
 2006 Consultant, California Department of Social Services

Honors and Awards

2013 Raymond B. Cattell Early Career Research Award for contributions to multivariate psychology, Society of Multivariate Experimental Psychology
 2012 State-of-the-Art Lecture, The Psychometric Society
 2011 Elected member, Graduate Group in Biostatistics, University of California, Davis
 2006 Education Abroad Program, University of California
 Visiting Scholar - Universidad de Granada, Spain (May-June 2006)
 2005 Elected member, Society of Multivariate Experimental Psychology
 2005 APA Division 5 Dissertation Award, American Psychological Association
 2002 The Society of Multivariate Experimental Psychology Dissertation Award
 2000 – 2002 Institute on Longitudinal Methods Scholarship, The Pennsylvania State University

Professional Memberships

American Psychological Association
 Society of Multivariate Experimental Psychology
 Society for Research in Child Development

Editorial Board

2010 – present Psychological Methods

Ad hoc reviewer***Journals***

Alcoholism: Clinical and Experimental Research, American Psychologist, Archives of General Psychiatry, BMC Medicine, Child Development Perspectives, Cognitive Therapy and Research, Communication in Statistics, Developmental Psychology, European Physical Education Review, Experimental Aging Research, Intelligence, International Journal of Psychophysiology, Journal of Applied Developmental Psychology, Journal of Cognition and Development, Journal of Consulting and Clinical Psychology, Journal of Educational Psychology, Journal of Experimental Child Psychology, Journal of Personality Assessment, Journal of School Psychology, Journal of Sport and Exercise Psychology, Learning and Individual Differences, Motivation and Emotion, Multivariate Behavioral Research, Prevention Science, Psychological Assessment, Psychological Bulletin, Psychological Methods, Psychology and Aging, Psychological Science, Psychometrika, Research on Human Development, Research Quarterly for Exercise and Sport, Revista Mexicana de Psicología, The Journal of Gerontology: Psychological Sciences

Grants

National Science Foundation, Netherlands Organisation for Scientific Research, National Institute of Education, Singapore

Books

Oxford University Press, American Psychological Association Books, Taylor & Francis, Chapman & Hall/CRC Press

Professional Societies

American Psychological Association, Division 5 (Evaluation, Measurement, and Statistics)

PUBLICATIONS*Books*

Ferrer, E., & Chow, S.M. *Dynamic of dyadic interactions*. (Under contract). New York: Springer.

Chow, S.M., **Ferrer, E.**, & Hsieh, F. (2010). *Statistical methods for modeling human dynamics: An interdisciplinary dialogue*. New York: Taylor and Francis.

Articles and Book Chapters (* = Student in Ferrer's Lab)*In Press*

82. Castro-Schilo, L. *, **Ferrer, E.**, Hernández, M.M., & Conger, R.D. (in press). Developmental consequences of school attachment among students of Mexican origin. *Journal of Research in Adolescence*.

81. Carp, S.B., Rothwell, E.S., Freeman, S.M., **Ferrer, E.** & Bales, K.L. (in press). Validation of a partner preference test in socially monogamous Coppersy Titi Monkeys (*Callicebus cupreus*). *American Journal of Primatology*.

80. Rosenberg, E.L., Zanesco, A.P., King, B.G., Aichele, S.R., Jacobs, T.L., Bridwell, D.A., MacLean, K.A., Shaver, P.R., **Ferrer, E.**, Sahdra, B.K., Lavy, S., Wallace, B.A., Saron, C.D. (in press). Intensive meditation training influences emotional responses to suffering. *Emotion*.

79. Laredo, S.A., Steinman, M.Q., Robles, C.F., **Ferrer, E.**, Ragen, B.J., Bales, K.L., & Trainor, B.C. (in press). Effects of defeat stress on behavioral flexibility in males and females: modulation by the mu-opioid receptor. *European Journal of Neuroscience*.

78. Liu, C., C. Dang, C., Braeken, J., Colom, R., & **Ferrer, E.** (in press). Do processing speed and short-term storage exhaust the relation between working memory capacity and intelligence? *Personality and Individual Differences*.

77. Gonzales, J.E. *, & **Ferrer, E.** (in press). An introduction to growth curve modeling. *Encyclopedia of Adult and Aging*.

76. Harris, M.A., Steiger, A.E., **Ferrer, E.**, Donnellan, M.B., Allemand, M., Fend, H., Conger, R.D., & Trzesniewski, K.H. (in press). Do parents foster self-esteem? Testing the prospective impact of parent closeness on adolescent self-esteem. *Child Development*.

2015

75. Muth, C. *, Bales, K.L., Hinde, K., Maninger, N., Mendoza, S.P., & Ferrer, E. (2015). Alternative models for small samples in psychological research: Applying linear mixed effects models and generalized estimating equations to repeated measures data. *Educational and Psychological Measurement*, 1–24 DOI: 10.1177/0013164415580432.

74. Estrada, E., Ferrer, E., Abad, F.J., Roman, F.J., Colom, R. (2015). A general factor of intelligence fails to account for changes in tests' scores after cognitive practice: A longitudinal multi-group latent-variable study. *Intelligence*, 50, 93-99.

73. Gonzales, J.E. *, & Ferrer, E. (2015). Longitudinal analyses of sexual development through early adulthood. In J. Wright (Ed.), *International Encyclopedia of Social and Behavioral Sciences* (pp. 328-339). Elsevier.

72. Gonzales, J.E. *, & Ferrer, E. (2015). Sensitivity to restricted factor analysis model misspecification. *Published Abstract, Multivariate Behavioral Research*, 50, 132-133. DOI: 10.1080/00273171.2014.988992

2014

71. Ferrer, E. & Gonzales, J.E. * (2014). Longitudinal models for studying multivariate change and dynamics. *Annals of Nutrition and Metabolism*, 65, 184-197. DOI: 10.1159/000365581.

70. Ferrer, E., & Steele, J. * (2014). Differential equations for evaluating theoretical models of dyadic interactions. In P.C.M. Molenaar, K.M. Newell, & R.M. Lerner (Eds.), *Handbook of developmental systems theory and methodology* (pp. 345-368). NY: Guilford Press.

69. Steele, J. *, Ferrer, E., & Nesselroade, J.R. (2014). An idiographic approach to estimating models of dyadic interactions with differential equations. *Psychometrika*, 79, 675-700. DOI : 10.1007/s11336-013-9366-9.

68. Helm, J. *, Sbarra, D.A., & Ferrer, E. (2014). Coregulation of respiratory sinus arrhythmia in adult romantic partners. *Emotion*, 14, 522-531.

67. Gonzales, J.E. *, & Ferrer, E. (2014). Individual pooling for group-based modeling under the assumption of ergodicity. *Multivariate Behavioral Research*, 42, 245–260.

66. Gu, F., Preacher, K., & Ferrer, E. (2014). A state space modeling approach to mediation analysis. *Journal of Educational and Behavioral Statistics*, 39, 117-143.

2013

65. Ferrer, E. & Gonzales, J.E., & Steele, J. (2013). Intra- and inter-individual variability of daily affect in adult couples. *Geropsych*, 26(3), 163-172.

64. **Ferrer, E.** & Helm, J.* (2013). Dynamical systems modeling of physiological coregulation in dyadic interactions. *International Journal of Psychophysiology*, 88, 296-308. DOI: 10.1016/j.ijpsycho.2012.10.013.

63. **Ferrer, E.**, Whitaker, K.J., Steele, J. *, Green, C.T., Wendelken, C., & Bunge, S.A. (2013). White matter maturation supports the development of reasoning ability through its influence on processing speed. *Developmental Science*, pp. 1-13. DOI: 10.1111/desc.12088.

62. Castro-Schilo, L. *, & **Ferrer, E.** (2013). Comparison of nomothetic versus idiographic-oriented methods for making predictions about distal outcomes from time series data. *Multivariate Behavioral Research*. 48, 175–207.

61. Castro-Schilo, L. *, Taylor, Z.E., **Ferrer, E.**, Widaman, K.F., Robins, R.W., & Conger, R.D. (2013). Parental optimism, positive parenting, and child peer competence in Mexican-origin families. *Parenting: Science and Practice*, 13, 95-112. DOI: 10.1080/15295192.2012.709151.

60. Dang, C. Braeken, J., Colom, R., **Ferrer, E.**, & Liu, C. (2013). Why is working memory related to intelligence? Different contributions from storage and processing. *Memory*. DOI: 10.1080/09658211.2013.797471.

59. Kail, R.V., McBride-Chang, C., **Ferrer, E.**, Cho, J-R., & Shu, H. (2013). Cultural differences in the development of processing speed. *Developmental Science*, 16, 476–483. DOI: 10.1111/desc.12039.

58. Jacobs, T. L., Shaver, P. R., Epel, E. S., Zanesco, A. P., Aichele, S. R., Bridwell, D. A., Rosenberg, E. L., King, B. G., MacLean, K. A., Sahdra, B. K., Kemeny, M. E., **Ferrer, E.**, Wallace, B. A., & Saron, C. D. (2013). Self-reported mindfulness and cortisol during a Shamatha meditation retreat. *Health Psychology*. doi:10.1037/a0031362.

57. McAssey, M., Helm, J. *, Hsieh, F., Sbarra, D.A., & **Ferrer, E.** (2013). Methodological advances for detecting physiological synchrony during dyadic interactions. *Methodology*, 9(2), 41–53. DOI: 10.1027/1614-2241/a000053

2012

56. Conger, R. D., Song, H. *, Stockdale, G. D., **Ferrer, E.**, Widaman, K.F., & Cauce, A.M. (2012). Resilience and vulnerability of Mexican origin youth and their families: A test of a culturally-informed model of family economic stress. In P. K. Kerig, M. S. Schulz, & S. T. Hauser (Eds.), *Adolescence and beyond: Family processes and development* (pp. 268-286). New York: Oxford University Press.

55. Cuadrado, I., Navas, M., Molero, F., **Ferrer, E.**, & Morales, J.F. (2012). Gender differences in leadership styles as a function of leader and subordinates sex and type of organization. *Journal of Applied Social Psychology*, 42, 3083–3113. DOI: 10.1111/j.1559-1816.2012.00974.x.

54. Dang, C. Braeken, J., **Ferrer, E.**, & Liu, C. (2012). Unitary or non-unitary nature of working memory? Evidence from its relation to general fluid and crystallized intelligence. *Intelligence*, *40*, 499-508.

53. **Ferrer, E.**, & Grimm, K.J. (2012). Issues in collecting longitudinal data. In Harris Cooper. (Ed.), *APA Handbook of research methods in psychology* (pp. 275-290). Washington, DC: APA Press.

52. **Ferrer, E.**, & Song, H. * (2012). Longitudinal structural models for examining dynamics in dyadic interactions. In Rick H. Hoyle. (Ed.), *Handbook of structural equation modeling* (pp. 601-616). New York, NY: Guilford Press.

51. **Ferrer, E.**, & Steele, J. * (2012). Dynamic systems analysis of affective processes in dyadic interactions using differential equations. In G.R. Hancock & J.R. Harring (Eds.), *Advances in longitudinal methods in the social and behavioral sciences* (pp. 111-134). Charlotte, NC: Information Age Publishing.

50. **Ferrer, E.**, Steele, J. *, & Hsieh, F. (2012). Analyzing dynamics of affective dyadic interactions using patterns of intra- and inter-individual variability. *Multivariate Behavioral Research*, *47*, 136-171.

49. Helm, J. *, Sbarra, D.A., & Ferrer, E. (2012). Assessing cross-partner associations of physiological responses via coupled oscillator models. *Emotion*, *12*, 748-762. PMID: 21910541.

48. Sagar, M., King, B.G., Zanesco, A.P., MacLean, K.A., Aichele, S.R., Jacobs, T.L., Bridwell, D.A., Shaver, P.R., Rosenberg, E.L., Sahdra, B.K., **Ferrer, E.**, Tang, E.C., Mangun, G.R., Wallace, B.A., Miikkulainen, R., & Saron, C.D. (2012). Intensive training induces longitudinal changes in meditation state-related EEG oscillatory activity. *Frontiers in Neuroscience*, *6*, 1-14. DOI: 10.3389/fnhum.2012.00256.

47. Song, H. *, & **Ferrer, E.** (2012). Bayesian estimation of random coefficient dynamic factor models. *Multivariate Behavioral Research*, *47*, 26-60.

2011

46. **Ferrer, E.**, & Ghisletta, P. (2011). Methodological issues in the psychology of aging. In K.W. Schaie & S.L. Willis (Eds. 7th Edition), *Handbook of the psychology of aging* (pp. 25-39). San Diego, CA: Elsevier.

45. Hsieh, F., **Ferrer, E.**, Chen, S., Mauss, I.B., Oliver, J., & Gross, J.L. (2011). A network approach for evaluating coherence in multivariate systems: An application to psychophysiological emotion data. *Psychometrika*, *76*, 124-152.

44. Jacobs, T.L. et al. (2011). Intensive meditation training, immune cell telomerase activity, and psychological mediators. *Psychoneuroendocrinology*, *36*, 664-681. PMID: 21035949.

43. Mauss, I. B., Shallcross, A. J., Troy, A. S., John, O. P., **Ferrer, E.**, Wilhelm, F. H., & Gross, J. J. (2011). Don't hide your happiness! Positive emotion dissociation, social connectedness, and psychological functioning. *Journal of Personality and Social Psychology, 100*, 738-748. PMID: 21280962.

42. Molero, F., Shaver, P.R., **Ferrer, E.**, Cuadrado, I., & Alonso-Arbiol, I. (2011). Attachment insecurities and relationship adjustment in long-term Spanish couples: A dyadic approach. *Personal Relationships, 18*, 617-629. DOI: 10.1111/j.1475-6811.2010.01325.x.

41. Sahdra, B. K., MacLean, K. A., **Ferrer, E.**, Shaver, P. R., Rosenberg, E. L., Jacobs, T. L., Zanesco, A. P., Aichele, S. R., King, B. G., Bridwell, D. A., Mangun, G. R., Lavy, S., Wallace, B. A., & Saron, C. D. (2011). Enhanced response inhibition during intensive meditation training predicts improvements in self-reported adaptive socio-emotional functioning. *Emotion, 11*, 299-312. PMID: 21500899.

40. Steele, J.* & **Ferrer, E.** (2011). Latent differential equation modeling of self-regulatory and coregulatory affective processes. *Multivariate Behavioral Research, 46*, 956-984.

39. Steele, J.* & **Ferrer, E.** (2011). Randomness and Residuals: A reply to Oud and Folmer's Critique. *Multivariate Behavioral Research, 46*, 994-1003.

38. Wendelken, C., O'Hare, E.D., Whitaker, K.J., **Ferrer, E.**, & Bunge, S.A. (2011). Increased functional selectivity over development in rostrolateral prefrontal cortex. *Journal of Neuroscience, 31(47)*, 17260-17268. PMID: 22114292.

2010

37. **Ferrer, E.**, Chen, S., Chow, S.M., & Hsieh, F. (2010). Exploring intra-individual, inter-individual and inter-variable dynamics in dyadic interactions. In S.M. Chow, E. Ferrer, & F. Hsieh (Eds.), *Statistical methods for modeling human dynamics: An interdisciplinary dialogue* (pp. 381-411). New York: Taylor and Francis.

36. **Ferrer, E.**, & McArdle, J.J. (2010). Longitudinal modeling of developmental changes in psychological research. *Current Directions in Psychological Science, 19*, 149-154.

35. **Ferrer, E.**, Shaywitz, B.A., Holahan, J.N., Marchione, K., & Shaywitz, S.E. (2010). Uncoupling of reading and IQ over time: Empirical evidence for a definition of dyslexia. *Psychological Science, 21*, 93-101. PMID: 20424029.

34. Gaffney, T., Cudeck, R., **Ferrer, E.**, & Widaman, K.F. (2010). On the factor structure of standardized educational achievement tests. *Journal of Applied Measurement, 11*, 1-25. PMID: 21164227.

33. Hsieh, F., **Ferrer, E.**, Chen, S., & Chow, S.-M. (2010). Exploring nonstationary dynamics in dyadic interactions via hierarchical segmentation. *Psychometrika, 75*, 351-372.

32. Larzelere, R. E., **Ferrer, E.**, & Khun, B.R. (2010). Differences in causal estimates from longitudinal analyses of residualized versus simple gain scores: Contrasting controls for selection and regression artifacts. *International Journal of Behavioral Development*, *34*, 180-189.

31. McAssey, M., Hsieh, F., & **Ferrer, E.** (2010). Optimal and robust design for efficient system-wide synchronization in networks of randomly-wired neuron-nodes. *Statistics and Its Interface*, *3*, 159-168.

30. MacLean, K.A., **Ferrer, E.**, Aichele, S.R., Bridwell, D.A., Zanesco, A.P., Jacobs, T.L., King, B.G., Rosenberg, E.L., Sahdra, B.K., Shaver, P.R., Wallace, B.A., Mangun, G.R., & Saron, C.D. (2010). Intensive meditation training leads to improvements in perceptual discrimination and sustained attention. *Psychological Science*, *21*, 829-839. PMID: 20483826.

29. Widaman, K.F., & **Ferrer, E.**, & Conger, R.D. (2010). Factorial invariance within longitudinal structural equation models: Measuring the same construct across time. *Child Development Perspectives*, *4*, 10-18. PMID: 20369028.

2009

28. **Ferrer, E.**, O'Hare, E., & Bunge, S.A. (2009). Fluid reasoning and the developing brain. *Frontiers in Neuroscience*, *3*(1), 46-51. PMID: 19753096.

27. **Ferrer, E.**, & Zhang, G. (2009). Time series models for examining psychological processes: Applications and new developments. In R. E. Millsap, & A. Maydeu-Olivares (Eds.), *Handbook of quantitative methods in psychology* (637-657). London: Sage Publications.

26. Song, H. *, & **Ferrer, E.** (2009). State-space modeling of dynamic psychological processes via the Kalman smoother algorithm: Rationale, finite sample properties, and applications. *Structural Equation Modeling*, *16*, 338-363.

25. Song, H. *, Thompson, R.A., & **Ferrer, E.** (2009). Attachment and self-evaluation in Chinese adolescents: Developmental and gender differences. *Journal of Adolescence*, *32*, 1267-1286. PMID: 19223067.

2008

24. Corbett, B., Shickman, K., & **Ferrer, E.** (2008). The effects of Tomatis sound therapy on language in children with autism. *Journal of Autism and Developmental Disorders*, *38*, 562-566. PMID: 17610057.

23. **Ferrer, E.**, & Widaman, K. F. (2008). Dynamic factor analysis of dyadic affective processes with inter-group differences. In N.A. Card, J.P. Selig., & T.D. Little (Eds.), *Modeling dyadic and interdependent data in the developmental and behavioral sciences* (pp. 107-137). Hillsdale, NJ: Psychology Press.

22. **Ferrer, E.**, Balluerka, N., & Widaman, K.F. (2008). Factorial Invariance and the specification of second-order latent growth models. *Methodology*, *4*, 22-36. PMID: 20046801.

21. Wright, S.B., Matlen, B.J., Baym, C.L., **Ferrer, E.**, & Bunge, S.A. (2008). Neural correlates of fluid reasoning in children and adults. *Frontiers in Neuroscience*, *1*, 1-8. PMID: 18958222.

2007

20. Bales, K. L., Plotsky, P. M., Young, L. J, Lim, M. M., Grotte, N., **Ferrer, E.**, & Carter, C. S. (2007). Neonatal oxytocin manipulations have long-lasting, sexually dimorphic effects on vasopressin receptors. *Neuroscience*, *144*, 38-45.

19. Chow, S –M., **Ferrer, E.**, & Nesselroade, J.R. (2007). An unscented Kalman filter approach to the estimation of nonlinear dynamical systems models. *Multivariate Behavioral Research*, *42*, 283-321.

18. **Ferrer, E.**, McArdle, J.J., Shaywitz, B.A., Holahan, J.N., Marchione, K., & Shaywitz, S.E. (2007). Longitudinal models of developmental dynamics between reading and cognition from childhood to adolescence. *Developmental Psychology*, *43*, 1460-1473. PMID: 18020824.

17. Kail, R.V., & **Ferrer, E.** (2007). Processing speed in childhood and adolescence: Longitudinal models for examining developmental change. *Child Development*, *78*, 1760-1770. PMID: 17988319.

16. Shaywitz, B.A., **Ferrer, E.**, & Shaywitz, S.E. (2007). A case of less than meets the eye. *Annals of Neurology*, *10.1002*, 21156. PMID: 17539017.

2006

15. **Ferrer, E.** (2006). Application of dynamic factor analysis to affective processes in dyads. In A.D. Ong & M. van Dulmen (Eds.), *Handbook of methods in positive psychology* (pp. 41-58). New York: Oxford University Press.

14. Sbarra, D.A., & **Ferrer, E.** (2006). The Structure and process of emotional experience following non-marital relationship dissolution: Dynamic factor analyses of love, anger, and sadness. *Emotion*, *6*, 224-238. PMID: 16768555.

2005

13. **Ferrer, E.**, Salthouse, T.A., McArdle, J.J., Stewart, W.F. & Schwartz, B.S. (2005). Multivariate modeling of age and practice in longitudinal studies of cognitive abilities. *Psychology and Aging*, *20*, 412-422. PMID: 16248701.

2004

12. **Ferrer, E.**, Hamagami, F., & McArdle, J.J. (2004). Modeling latent growth curves with incomplete data using different types of structural equation modeling and multilevel software. *Structural Equation Modeling*, *11*, 452-483.

11. **Ferrer, E.** & McArdle, J.J. (2004). An experimental analysis of dynamic hypotheses about cognitive abilities and achievement from childhood to early adulthood. *Developmental Psychology*, *40*, 935-952. PMID: 15535749.

10. **Ferrer, E.**, Salthouse, T.A., Stewart, W.F. & Schwartz, B.S. (2004). Modeling age and retest processes in longitudinal studies of cognitive abilities. *Psychology and Aging, 19*, 243-259. PMID: 15222818.

9. Salthouse, T.A., Schroeder, D.H. & **Ferrer, E.** (2004). Estimating retest effects in longitudinal assessment of cognitive functioning in adults between 18 and 60 years of age. *Developmental Psychology, 40*, 813-822. PMID: 15355168.

2003

8. **Ferrer, E.** & McArdle, J.J. (2003). Alternative structural models for multivariate longitudinal data analysis. *Structural Equation Modeling, 10*, 493-524.

7. **Ferrer, E.** & Nesselroade, J.R. (2003). Modeling affective processes in dyadic relations via dynamic factor analysis. *Emotion, 3*, 344-360. PMID: 14674828.

6. Salthouse, T.A., & **Ferrer-Caja, E.** (2003). What needs to be explained to account for age-related effects on multiple cognitive variables? *Psychology and Aging, 18*, 91-110. PMID: 12641315.

2002

5. **Ferrer-Caja, E.**, Crawford, J.R., & Bryan, J. (2002). A structural modeling examination of the executive decline hypothesis of cognitive aging through reanalysis of Crawford et al.'s (2000) data. *Aging, Neuropsychology, and Cognition, 9*, 231-249.

4. **Ferrer-Caja, E.**, & Weiss, M.R. (2002). Cross-validation of a model of intrinsic motivation in physical education with students enrolled in elective courses. *Journal of Experimental Education, 71*, 41-65.

3. McArdle, J.J., **Ferrer-Caja, E.**, Hamagami, F., & Woodcock, R.W. (2002). Comparative longitudinal structural analyses of the growth and decline of multiple intellectual abilities over the life-span. *Developmental Psychology, 38*, 115-142. PMID: 11806695.

2. Weiss, M.R., & **Ferrer-Caja, E.** (2002). Motivational orientations in sport. In T.S. Horn (Ed.), *Advances in sport psychology* (2nd ed., pp. 101-183). Champaign, IL: Human Kinetics.

2000

1. **Ferrer-Caja, E.**, & Weiss, M.R. (2000). Predictors of intrinsic motivation among adolescent students in physical education. *Research Quarterly for Exercise and Sport, 71*, 267-279.

Selected Media Coverage

2012

Couples in the same place emotionally stay together, UC Davis study says. *UC Davis: News and Information*.

In-Sync Feelings Are Key. *The Huffington Post*.

Couples in the same place emotionally stay together. *Health*.

Couples in the same place emotionally stay together. *KGO Radio* (San Francisco), *KFBK Radio* (Sacramento).

2013

Lover's Hearts Beat At The Same Rate. *Nature*.

Lovers' Hearts Beat in Sync. *Science Daily*.

New research shows lovers' heartbeats match-up when together. *National Public Radio - Los Angeles*.

Lovers' hearts beat in sync. *Science Blog*.

UC Davis Study Shows Lovers' Heartbeats Match. Television Interview. *CBS Sacramento*.

GRANTS

Ongoing Research Support

Current Support:

2R01DA017902-06 Robins & Conger (PIs) 07/01/2010 – 06/30/2015

NIH-NIDA \$7,799,238

Mexican family culture and substance use risk and resilience

Role: Co-I

1R01MH098370-01 Paul Hastings & Amanda Guyer (PIs) 07/01/2012 – 06/30/2017

NIH-NIDA \$2,700,000

Neurobiological reactivity, allostatic load and the development of depression in Mexican-origin adolescents

Role: Co-I

Emily Solari (PI) 07/01/2016 – 06/30/2020

IES – R324A150091 \$3,500,000

Testing the efficacy of “Reading RULES”: First grade intervention for the prevention of comprehension and decoding difficulties

Role: Co-PI

Clifford Saron (PI) 03/01/2013 – 02/28/2016

John Templeton Foundation \$ 2,295,806

Quantifiable constituents of spiritual growth

Role: Co-I

R324A120168 Peter Mundy (PI) 03/01/12 – 02/28/2016

IES – CFDA 84.305A \$1,533,705.00

Virtual reality applications for attention and learning in children with autism and ADHD

Role: Co-PI

David Hessel (PI) NIH Trajectories and markers of neurodegeneration in Fragile X Role: Statistician	04/01/2013 – 03/31/2018 \$3,555,403
John D. Ragland (PI) NIH – R01MH05411-01 Neural mechanisms of memory dysfunction in schizophrenia Role: Co-Investigator	07/01/2014 – 06/30/2019 \$1,768,448
Arne Ekstrom (PI) NIH – R21NS087527-01A1 Mapping human memory with electrocorticography and chronometric stimulation Role: Co-I	09/30/2014 – 08/31/2016 \$303,643
Tony Simon (PI) NIH Cognitive-affective psychosis proneness risk and protective factors in 22q11.2DS Role: Co-Investigator	07/01/2014 – 06/30/2019
David Amaral (PI) NIH Neurophenotypes of Autism Spectrum Disorder: Longitudinal imaging and behavioral outcomes Role: Co-Investigator	04/01/2014 – 03/31/2019 3,652,552.00
Angelina Sutin (PI) NIH-NICHD – 1R15HD083947 The development of obesity in Mexican-origin youth Role: Co-Investigator	04/01/2014 – 03/31/2019 \$,475,452
Daniel Keating (PI) NIH Neurodevelopmental pathways in adolescent health risk behavior Role: Consultant	
Completed 1R01NS057146-01 Silvia Bunge & Emilio Ferrer (Multiple PIs) NIH-NINDS Neural changes underlying the development of reasoning Role: PI	07/01/2007 – 06/30/2012 \$1,866,754
BCS – 0527766 Emilio Ferrer (PI) National Science Foundation Dynamics of human behavior: Modeling the dynamics of dyadic interactions Role: PI	01/01/2006 – 06/30/2010 \$722,300
BCS – 0827021 Sy Miin Chow (PI)	09/25/2008 – 08/31/2011

National Science Foundation	Extended 08/31/2012 \$750,000
DHB Collaborative research: Developing non-stationary and network-based methods for modeling the perception and physiology of emotion	
Role: PI (Sub-contract with UNC-Chapel Hill)	
Emilio Ferrer (PI)	01/07/2004 – 30/09/2005
University of California, Davis (Office of Academic Senate)	\$33,000
Modeling dynamics of dyadic interactions	
Role: Principal Investigator	
Emilio Ferrer (PI)	01/10/2005 – 30/06/2006
UC Davis: Center on Quantitative Social Science Research	
Seminar & Workshop: Dynamical factor analysis	
Seminar and workshop to present practical techniques for the analysis of data using dynamic factor analysis. Invited presenter: Dr. Michael Browne (Ohio State University).	
Role: Seminar Organizer	
Grant #2191 Clifford Saron (PI)	07/01/2006 – 06/30/2011
The Fetzer Institute	\$1,488,650
A longitudinal, randomized waitlist control study of cognitive, emotional, and neural effects of intensive meditation training	
Role: Co-PI	
1R01 HD056031-01 Susan Rivera (PI)	08/08/2007 – 05/31/2012
NIH-NICHD	\$1,274,417
Visual processing and later cognitive effects in infants with fragile X syndrome	
Role: Co-Investigator	
R03 HD44679-01A1 Robert E. Larzelere (PI)	03/10/2004 - 02/28/2006
NIH-NICHD	\$73,500
Antisocial growth and parenting: Bidirectional linkages	
Role: Consultant	
Robert Kail (PI)	01/09/2004 – 31/08/2005
NIH-NICHD	
Nature and impact of development in processing speed	
Role: Consultant	
Alex Mason (PI)	01/09/2005 – 31/03/2007
NIH-NIDA	
Role of psychopathology in adolescent problem drug use	
Role: Consultant	

CONFERENCE PRESENTATIONS (last five years; * = Student in Ferrer's Lab)

Ferrer, E. (April, 2008). *Modeling the Dynamics of Affective Processes in Dyadic Interactions*. Invited talk presented in the Department of Psychology. University of California, Riverside, CA.

Ferrer, E. (June, 2008). *Longitudinal Models for Examining Developmental Processes*. Invited talk presented at the MIND Institute. University of California, Davis-Medical School. Sacramento, CA.

Ferrer, E. (July, 2008). *Longitudinal Models to Examine Multivariate Change*. Chaired symposium presented at the III European Congress of Methodology. Oviedo, Spain.

Ferrer, E., Steele, J. *, & Hsieh, F. (July, 2008). *Patterns of Intra- and Inter-Individual Variability for Examining Dyadic Interactions and Predicting Break-Up Outcome*. Paper presented at the III European Congress of Methodology. Oviedo, Spain.

López, A., & **Ferrer, E.** (July, 2008). *Evaluating Interdependence in Dyadic Interactions Using Linear and Nonlinear Synchronization*. Paper presented at the III European Congress of Methodology. Oviedo, Spain.

Song, H. *, & **Ferrer, E.** (August, 2008). *Identifying the Dimensions of the Latent Time Series in Dynamic Factor Analysis*. Paper presented at the Annual Meeting of American Psychological Association (APA). Boston, MA.

Song, H. *, Thompson, R.A., & **Ferrer, E.** (August, 2008). *Attachment and self-evaluation in Chinese adolescents: Developmental and gender differences*. Paper presented at the Annual Meeting of American Psychological Association (APA). Boston, MA.

Ferrer, E. (September, 2008). *Analyzing Dynamics of Affective Dyadic Interactions Using Patterns of Intra- and Inter-Individual Variability*. Paper presented at the Annual Meeting of The Society for Multivariate Experimental Psychology (SMEP). Montreal, Canada.

Ferrer, E. (November, 2008). *Modeling the Dynamics of Affective Processes in Dyadic Interactions*. Invited talk presented at the Research Center for Group Dynamics. Institute for Social Research, University of Michigan. Ann Arbor, MI.

O'Hare, E.D., Whitaker, K.J., de Macks, Z.A.O., Johnson, B.D., **Ferrer, E.**, & Bunge, S.A. (November, 2008). *Mapping Relationships between Fluid Reasoning Ability and Brain Structure in Development*. Paper presented at the Annual Meeting of the Society for Neuroscience. Washington, D.C.

MacLean, K.A., Aichele, S.R. *, Bridwell, D.A., Jacobs, T.L., Zanesco, A., King, B.G., **Ferrer, E.**, Mangun, G.R., Saron, C.D. (November, 2008). *Intensive Attention Training in Concentration Meditation Leads to Improvements in Visual Sustained Attention and Response Inhibition*. Paper presented at the Annual Meeting of the Society for Neuroscience. Washington, D.C.

Ferrer, E. (November, 2008). *Longitudinal Multivariate Dynamic Models with Multiple Groups*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

Helm, J. *, **Ferrer, E.**, & Steele, J. * (January, 2009). *Physiological Linkage Within Romantic Relationships*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

Sbarra, D.A., Steele, J. *, & **Ferrer, E.** (January, 2009). *Traveling in the Red Zone: New Approaches to Interpersonal Affective Dynamics*. Paper presented at the Annual Meeting of the Society for Personality and Social Psychology (SPSP). Tampa, FL.

Castro-Schilo, L. *, Yarbrough, L. *, Macway, J. *, Shaver, P.R., & **Ferrer, E.** (February, 2009). *Attachment and Dynamics of Daily Affective Processes in Romantic Couples*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

O'Hare, E.D., Whitaker, K.J., de Macks, Z.A.O., Johnson, B.D., **Ferrer, E.**, & Bunge, S.A. (March, 2009). *Mapping Relationships between Cortical Thickness and Fluid Reasoning in Development*. Paper presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS). San Francisco, CA.

Whitaker, K.J., O'Hare, E.D., de Macks, Z.A.O., Johnson, B.D., **Ferrer, E.**, & Bunge, S.A. (March, 2009). *White Matter Maturation Supporting the Development of Fluid Reasoning*. Paper presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS). San Francisco, CA.

Helm, J. *, **Ferrer, E.**, Steele, J. *, & Castro-Schilo, L. * (April, 2009). *Physiological Linkage in Dyadic Interactions*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

Larzelere, R.E., Danelia, K., & **Ferrer, E.** (April, 2009). *Effects of Child Outcomes with Parenting and Professional Interventions*. Paper presented at the Biannual Meeting of the Society for Research in Child Development (SRCD). Denver, CO.

Castro-Schilo, L. *, Yarbrough, L. *, Macway, J. *, Shaver, P.R., & **Ferrer, E.** (May, 2009). *Attachment and Dynamics of Daily Affective Processes in Romantic Couples*. Paper presented at the Association of Psychological Science (APS) Annual Convention. San Francisco, CA.

Ferrer, E. (September, 2009a). *Modeling the Dynamics of Affective Processes in Dyadic Interactions*. Invited talk presented at the School of Psychology, East China Normal University. Shanghai, China.

Ferrer, E. (September, 2009b). *Fluid Reasoning and the Developing Brain*. Invited talk presented at the Institute of Psychology, Chinese Academy of Sciences. Beijing, China.

Ferrer, E. (September, 2009c). *Longitudinal Models of Developmental Dynamics between Reading and Cognition*. Invited talk presented at the Institute of Psychology, Chinese Academy of Sciences. Beijing, China.

Steele, J. *, & Ferrer, E. (October, 2009). *Latent Specification and Substantive Interpretation of Coupled Oscillators using Structural Equation Modeling*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

Helm, J. *, & Ferrer, E. (October, 2009). *Modeling Respiration via Mixed Effects Damped Linear Oscillator Models*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

MacLean, K.A., et al., (October, 2009). *Effects of Intensive Meditation on Sustained Attention: Changes in Visual Event-related Potentials, Ongoing EEG, and Behavioral Performance*. Paper presented at the Annual Meeting of the Society for Neuroscience. Chicago, IL.

O'Hare, E.D., Whitaker, K.J., Hill, S.S., Elis, O., Ferrer, E., & Bunge, S.A. (October, 2009). *Neural Basis of Age-Related Improvements in Relational Integration*. Paper presented at the Annual Meeting of the Society for Neuroscience. Chicago, IL.

Saggar, M., et al., (October, 2009). *Longitudinal Changes in Cortical Activity Associated with Intensive Meditation Training*. Paper presented at the Annual Meeting of the Society for Neuroscience. Chicago, IL.

Ferrer, E. (November, 2009a). *Longitudinal Models for Examining Developmental Processes*. Invited talk presented in the Department of Psychology. University of California, Merced, CA.

Ferrer, E., & Grimm, K.J. (November, 2009b). *Selection Effects in Longitudinal Multiple-Group Experiments*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

Jacobs, T. L., Epel, E. S., Lin, J., Blackburn, E., Wolkowitz, O. M., Bridwell, D. A., Zanesco, A. P., Aichele, S. R. *, King, B. G., Sahdra, B. K., Maclean, K. A., Lavy, S., Shaver, P. R., Ferrer, E., Rosenberg, E. L., Wallace, B. A., & Saron, C.D. (2009). The relation between telomerase activity and intensive meditation training is mediated by changes in psychological well-being. Symposium talk delivered at the 40th annual meeting of the International Society for Psychoneuroendocrinology, San Francisco, CA. (Invited).

Castro-Schilo, L. *, & Ferrer, E. (January, 2010). *Predicting the Affective Dynamics of Romantic Couples*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

Chow, S.-M., Ferrer, E., Hsieh, F., Yang, M., & Zhu, H. (February, 2010). *Developing Non-Stationary and Dynamic Methods for Modeling the Perception and Physiology of Emotion*. Research presented at the Human and Social Dynamics PIs Meeting. National Science Foundation, Washington, DC.

Ferrer, E. (March, 2010). *Analyzing Dynamics of Affective Dyadic Interactions Using Patterns of Intra- and Inter-Individual Variability*. Invited talk presented at the Conference in Modeling Dynamical Systems, Department of Statistics. University of California, Davis, CA.

Whitaker, K.J., O'Hare, E.D., Green, C.T., **Ferrer, E.**, & Bunge, S.A. (March, 2010). *Individual Differences in White Matter Maturation Underlying Fluid Reasoning Development*. Paper presented at the 20th Annual Rotman Research Institute Conference The Frontal Lobes. Toronto, Canada.

Ferrer, E., & Steele, J.* (June, 2010). *Modeling Affect Dynamics in Dyadic Interactions Using Differential Equations*. Invited talk presented at the conference in Advances in Longitudinal Methods in the Social and Behavioral Sciences. Center for Integrated Latent Variable Research, University of Maryland, College Park, MD.

Ferrer, E. (August, 2010). *Longitudinal Modeling of Developmental Changes in Psychological Research*. Invited talk presented at the Annual Meeting of the American Psychological Association (APA). San Diego, CA.

Sahdra, B. K., MacLean, K. A., **Ferrer, E.**, Shaver, P. R., Rosenberg, E. L., Jacobs, T. L., Zanesco, A. P., Aichele, S. R.* , King, B. G., Bridwell, D. A., Mangun, G. R., Lavy, S., Wallace, B. A., & Saron, C. D. (August, 2010). *Response Inhibition Enhanced by Meditation Training Predicts Improved Adaptive Functioning*. Poster presented at the Annual Meeting of the American Psychological Association (APA). San Diego, CA.

Ferrer, E., & Grimm, K. (October, 2010). *Selection Effects in Longitudinal Multiple-Group Experiments*. Paper presented at the Annual Meeting of The Society for Multivariate Experimental Psychology (SMEP). Atlanta, GA.

Steele, J.* , & **Ferrer, E.** (October, 2010). *Modeling at the Individual Level: Fitting Differential Equations to Empirical Data*. Research talk presented in the Department of Psychology. University of California, Davis, CA.

Ferrer, E. (November, 2010a). *Confirmatory and Exploratory Modeling of Affective Dynamics in Dyadic Interactions*. Research talk presented at the First Meeting of the California Consortium of Quantitative Research and Education (ACCQUIRE). University of California, Davis, CA.

Ferrer, E. (November, 2010b). *Modeling the Dynamics of Affective Processes in Dyadic Interactions*. Research talk presented at the Undergraduate Psychology Association. University of California, Davis, CA.

Saggar, M., Aichele, S. R.* , Jacobs, T. L., Zanesco, A. P., Bridwell, D. A., MacLean, K. A., King, B. G., Sahdra, B. K., Rosenberg, E. L., Shaver, P. R., **Ferrer, E.**, Tang, A. C., Wallace, B. A., Mangun, G. R., Miikkulainen R., & Saron, C. D. (2010). Training attention: Longitudinal changes in cortical activity associated with intensive meditation. Symposium talk delivered at the Conference for Human Vision and Electronic Imaging, sponsored by the International Society for Optics and Photonics.

Saggar, M., Aichele, S. R. *, Jacobs T. L., Zanesco, A. P., Bridwell, D. A., Maclean, K. A., King, B. G., Sahdra, B. K., Rosenberg, E. L., Shaver, P. R., **Ferrer, E.**, Wallace, B. A., Mangun, G. R., Saron C. D., & Mikulainen, R. (2010). A computational approach to understanding the longitudinal changes in cortical activity associated with intensive meditation training. Symposium talk delivered at 19th annual meeting of Computational Neuroscience, San Antonio, TX.

Ferrer, E. (March, 2011). *Selection Effects in Longitudinal Multiple-Group Experiments*. Research talk presented at the Second Meeting of the California Consortium of Quantitative Research and Education (ACCQUIRE). University of California, Merced, CA.

Green, C.T., Whitaker, K.J., Steele, J.S., **Ferrer, E.**, & Bunge, S.A. (April, 2011). *Longitudinal Predictors of Mathematical Reasoning during Development*. Paper presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS). San Francisco, CA.

Whitaker, K.J., O'Hare, E.D., Green, C.T., **Ferrer, E.**, & Bunge, S.A. (April, 2011). *Longitudinal Changes in Analogical Reasoning from Age 6 to 19*. Paper presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS). San Francisco, CA.

Saggar, M., et al., (April, 2011). *Cortical Activation Changes Associated with Intensive Meditation Training Are Related to Vigilance Performance*. Paper presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS). San Francisco, CA.

Steele, J.S. *, Whitaker, K.J., Green, C.T., Bunge, S.A., & **Ferrer, E.** (April, 2011). *White Matter Integrity Predicts Fluid Reasoning Ability Through Its Influence on Processing Speed*. Paper presented at the Annual Meeting of the Cognitive Neuroscience Society (CNS). San Francisco, CA.

Sbarra, D.A., Helm, J. *, & **Ferrer, E.** (September, 2011). *Assessing Cross-partner Associations in Physiological Responses Via Coupled Oscillator Models*. Paper presented at the Annual Meeting of the Society of Psychophysiological Research (SPR). Boston, MA.

Ferrer, E., & Steele, J. * (November, 2011). *Using Differential Equations to Examine Theoretical Models for Dyadic Interactions*. Research talk to be presented at the Conference on Inductive Developmental Systems Theory. The Pennsylvania State University, College Park, PA.

Maclean, K. A., Sahdra, B. K., **Ferrer, E.**, Shaver, P. R., Aichele, S. R. *, Bridwell, D. A., Zanesco, A. P., Jacobs T. L., King, B. G. Mangun, G. R., Saron C. D., (2011). The effects of intensive meditation on perception, attention, and self-regulation. Symposium talk delivered at the 13th annual meeting of the Society of Personality and Social Psychology, San Diego, CA. (Invited).

Rosenberg, E. L., Zanesco, A. P., King, B. G. Aichele, S. R. *, Jacobs T. L., Maclean, K. A., Bridwell, D. A., Sahdra, B. K., **Ferrer, E.**, Shaver, P. R., Wallace, B. A., & Saron C. D. (2011). Intensive meditation training influences emotional responses to scenes of human suffering.

Symposium talk delivered at the 12th annual meeting of the Society of Personality and Social Psychology, San Antonio, TX.

Saron C. D., Sahdra, B. K., Maclean, K. A., Jacobs T. L., **Ferrer, E.**, Epel, E., Shaver, P. R., Lin, J., Aichele, S. R. *, Bridwell, D. A., Zanesco, A. P., & King, B. G. (2011). Intensive meditation training enhances response inhibition, adaptive socio emotional functioning, and markers of cellular aging. Symposium talk delivered at the 12th annual meeting of the Society of Personality and Social Psychology, San Antonio, TX.

Ferrer, E. (February, 2012). *The Uncoupling of Reading and IQ in Dyslexics Compared to Typical Readers*. Research talk presented at the Learning and the Brain Conference. San Francisco, CA.

Ferrer, E., & Steele, J. * (February, 2012). *Dynamic Models for Dyadic Interactions in Developmental Research*. Research talk presented at the Biannual Meeting of the Society for Research in Child Development (SRCD). Tampa, FL.

Ferrer, E. (March, 2012). *Modeling the Dynamics of Interrelated Processes*. Research talk presented at the Faculty of the Department of Psychology, University of California, Davis.

Ferrer, E. (May, 2012a). *Mathematical and Exploratory Models of Affective Dynamics in Dyadic Interactions*. Research talk presented at the annual Department of Psychology Conference, University of California, Davis.

Ferrer, E. (May, 2012b). *Dynamical Systems Analysis of Intensive Daily Data from Dyadic Interactions*. Research talk presented at the annual meeting of the American Psychological Society (APS), Chicago, IL.

Ferrer, E. (June, 2012). *Longitudinal Models for Examining Developmental Processes*. Invited talk presented at the MIND Institute. University of California, Davis-Medical School. Sacramento, CA.

Ferrer, E. (July, 2012a). *Modeling the Dynamics in Dyadic Interactions*. Invited talk for the State-of-the-Art Speaker Research presented at the Annual Meeting of the Psychometric Society (IMPS 2012), Lincoln, NE.

Ferrer, E. (July, 2012b). *Dynamical Systems Analysis of Intensive Daily Data from Dyadic Interactions*. Research talk presented at the annual meeting of the European Congress of Methodology, Santiago de Compostela, Spain.

Ferrer, E. (October, 2012a). *Differential Equations Models of Physiological Coregulation in Dyadic Interactions*. Paper presented at the Annual Meeting of The Society for Multivariate Experimental Psychology (SMEP). Vancouver, BC, Canada.

Ferrer, E. (November, 2012). *Modeling Dynamics in Dyadic Interactions*. Invited talk presented at the UCM Psychological Sciences Colloquium. University of California, Merced, CA.

Ferrer, E. (January, 2013). *Latent Growth Modeling of Children Development*. Invited talk presented at the International Research Meeting in *Analysis of Child Growth Trajectories*, Center for Advanced Studies, Ludwig-Maximilians-Universität, Munich, Germany.

Ferrer, E. (March, 2013). *Dynamics of Affect in Romantic Relationships: Recent Findings and Future Challenges*. Invited talk presented at the UC Davis Residence Halls Speaker Series. University of California, Davis.

Ferrer, E. (September, 2013). *Longitudinal Modeling of Fluid Reasoning Development from Childhood to Adolescence*. Invited talk presented at the *Distinguished Lecture Series*, Department of Psychology. Portland State University, Portland, OR.

Ferrer, E., Helm, J.*, & Sbarra, D.A. (October, 2013). *Differential Equations for Examining Models of Physiological Coregulation in Dyadic Interaction*. Research talk presented at the Annual Meeting of the Society of Psychophysiological Research (SPR). Florence, Italy.

Ferrer, E. (January, 2014). *Longitudinal Models for Examining Developmental Processes*. Invited talk presented at the Department of Psychology. Tufts University, Medford, MA.

Ferrer, E. (February, 2014a). *Individual vs. Group-Based Models for Extracting Patterns of Dynamics and Multivariate Processes*. Invited talk presented at the Department of Psychology. Universiteit van Amsterdam, Amsterdam, The Netherlands.

Ferrer, E. (February, 2014b). *Statistical and Exploratory Models for Studying Social Interactions, Dynamics, and Multivariate Processes*. Invited talk presented at the VVS, Netherlands Society of Statistics and Operations Research. Utrecht University, The Netherlands.

Ferrer, E., & Gonzales, J.E. (May, 2014). *Methodological Advances for Examining Intra- and Inter-Individual Variability Over Time*. Research talk presented at the annual meeting of the American Psychological Society (APS), San Francisco, CA.

Ferrer, E. (June, 2014a). *Longitudinal Models for Examining Developmental Processes*. Invited talk presented at the Department of Methodology and Social Psychology. Universidad Autónoma de Madrid. Madrid, Spain.

Ferrer, E. (June, 2014b). *Statistical and Exploratory Models for Studying Social Interactions, Dynamics, and Multivariate Processes*. Invited talk presented at the Department of Methodology and Social Psychology. Universidad Autónoma de Madrid. Madrid, Spain.

Ferrer, E. (June, 2012). *Methodological Issues in Longitudinal Studies*. Invited talk presented at the MIND Institute. University of California, Davis-Medical School. Sacramento, CA.

Steele, J.S., & **Ferrer, E.** (September, 2014). *Accounting for Random Change: Fitting Linear Stochastic Differential Equations*. Research talk presented at the Developmental Methodology Conference, Society for Research in Child Development. San Diego, CA.

Steele, J.S., & Ferrer, E., & Nesselroade, J.R. (September, 2014). *Use of Continuous Time Models in Measuring Change in Romantic Relationships*. Research talk presented at the Developmental Methodology Conference, Society for Research in Child Development. San Diego, CA.

Ferrer, E. (October, 2014). *Statistical and Exploratory Models for Studying Social Interactions, Dynamics, and Multivariate Processes*. R.B. Cattell Award address presented at the Annual Meeting of The Society for Multivariate Experimental Psychology (SMEP). Nashville, TN.

Steele, J.S., & Ferrer, E., & Sbarra, D.A. (November, 2014). *Developing Behavioral Filters: Some Extensions of State-Space Grids for Dyadic Data Analysis*. Research talk presented at the Workshop on Computationally Intensive Modeling of Social Interactions. University of Arizona, Tucson, AZ.

Ferrer, E. (November, 2014a). *Discussant*. Workshop on Computationally Intensive Modeling of Social Interactions. University of Arizona, Tucson, AZ.

Ferrer, E. (November, 2014b). *Longitudinal Models for Examining Developmental Processes*. Invited talk presented at the National Institute of Education. Singapore.

Ferrer, E. (January, 2015a). *Developmental Dynamic Models for Examining Brain Changes and the Development of Fluid Reasoning*. Research presented at the Alpine Brain Imaging Meeting. Champéry, Switzerland.

Ferrer, E. (January, 2015b). *Discrete- and Continuous-Time Structural Equation Modeling of Fluid Reasoning Development*. Invited talk presented at the Centre for Research in Epidemiology and Population Health, University Paris Sud, Paris, France.

Ferrer, E. (January, 2015c). *Statistical and Exploratory Models for Studying Dynamics in Social Interactions*. Invited talk presented at the Department of Psychology. University of British Columbia, Vancouver, British Columbia, Canada.

Ferrer, E. (March, 2015c). *Statistical and Exploratory Models for Studying Dynamics in Social Interactions*. Invited talk presented at the Department of Psychology. University of Southern California, Los Angeles, California.

ADVISING

Graduate Students

- 2004 – 2009 Hairong Song, Doctoral student (Assistant Professor, Department of Psychology, University of Oklahoma)
- 2007 – 2011 Joel Steele, Doctoral student (Assistant Professor, Department of Psychology, Portland State University)
- 2008 – 2012 Laura Castro-Schilo, Doctoral student (Assistant Professor, Department of Psychology, University of North Carolina-Chapel Hill)
- 2008 – 2013 Jonathan Helm, Doctoral student (Postdoctoral Scholar, Department of

Family and Human Development, The Pennsylvania State University)
 2008 – 2013 Stephen Aichele, Doctoral student (Postdoctoral Scholar, Department of Psychology, Université de Genève, Switzerland)

2011 – present Joseph Gonzales, Doctoral student (Department of Psychology)
 2013 – present Chelsea Muth, Doctoral student (Department of Psychology)
 2013 – present Marilu Isiordia, Doctoral student (Department of Psychology)
 2014 – present Kristine Christianson, Doctoral student (Department of Psychology)

Co-Advising

2008 – 2010 Michael McAssey, Doctoral student (Postdoctoral Fellow, Department of Mathematics, Vrije Universiteit, Amsterdam)
 2006 – 2012 Ying-Fang Wang, Doctoral student (Department of Statistics)
 2010 – present Sarah Kahle, Doctoral student (Department of Psychology)
 2010 – present Alyssa Chávez, Doctoral student (Department of Human Development)
 2011 – present Hao Yan, Doctoral student (Department of Statistics)
 2011 – present Pega Davoudzadeh, Doctoral student (Department of Psychology)
 2011 – present April Sanders Masarik, Doctoral student (Department of Human Development)
 2011 – present Jonathan Perez, Doctoral student (Animal Behavior Graduate Group)
 2011 – present Carolyn McCormick, Doctoral student (Department of Psychology)
 2013 – 2014 Katerina Marcoulides, Doctoral student (Department of Psychology)
 2013 – present Jehan Sparks, Doctoral student (Department of Psychology)
 2013 – present Jonas Miller, Doctoral student (Department of Psychology)
 2013 – present Nathan Smith, Doctoral student (Department of Psychology)
 2013 – present Emily Rothwell, Doctoral student (Animal Behavior Graduate Group)
 2013 – present Natalia Duque, Doctoral student (Animal Behavior Graduate Group)
 2013 – present Adam Goldring, Doctoral student (Department of Psychology)
 2013 – present Tan Teck Kiang, Doctoral student (National Institute of Education, Nanyang University, Singapore)
 2013 – present Hao Ji, Doctoral student (Department of Statistics)
 2014 – present Nancy McIntyre, Doctoral student (School of Education)
 2014 – present Erin Freed, Doctoral student (Department of Psychology)
 2014 – present Brandon King, Doctoral student (Department of Psychology)
 2014 – present Mary Bonaparte-Saller, Doctoral student (Animal Behavior Graduate Group)
 2014 – present Emily Sievers Halket, Doctoral student (Department of Psychology)
 2014 – present Christina Hollifield, Doctoral student (Department of Human Development)
 2014 – present Olivia Lee, Doctoral student (Department of Statistics)
 2014 – present Amber Schedlbauer, Doctoral student (Neuroscience Graduate Program)
 2015 – present Alea Skwara, Doctoral student (Department of Psychology)

Undergraduate Students

2005 – 2006 Brittany Gentile, Honors Thesis. Highest Honors (Department of Psychology)..
 2006 – 2007 Bryan Matlen, Honors Thesis. Highest Honors (Department of Psychology).

Postdoctoral Scholars

Feb 14 –

Feb 15 Vicente Cassepp-Borges, Universidade Federal Fluminense, Rio de Janeiro, Brazil.

Visiting Scholars

May-June 05 Isabel Cuadrado Guirado, Visiting scholar, Universidad Nacional de Educación a Distancia, Madrid, Spain.

April-May 06 Nekane Balluerka, Visiting scholar, Universidad del Pais Vasco, San Sebastian, Spain.

Aug-Dec 07 Ana María López, Visiting scholar, Universidad de Sevilla, Sevilla, Spain.

Aug-Nov 08 Fernando Molero, Visiting scholar, Universidad Nacional de Educación a Distancia, Madrid, Spain.

Aug 10 –

July 11 Caiping Dang, Visiting scholar, Guangzhou Medical School, Guangzhou, China.

March-Apr 11 Johan Braeken, Visiting scholar, Tilburg University, The Netherlands.

Jan-May 12 Rebecca Bendaya, Visiting scholar, Universidad de Málaga, Spain.

Jan-May 14 Eduardo Estrada, Visiting scholar, Universidad Autónoma de Madrid, Spain.

Mar-June 15 Laura Bringmann, Visiting scholar, Katholieke Universiteit Leuven, Belgium.

Research Lab Students and Alumni

Elizabeth Abinante, Nahal Agahi, Sarah Andrews, Christie Barnett, Suk Brar, Philip Cello, Christina Crosetti, Michelle DeLong*, Roman Deveras, Lizbeth Duran*, Neil Eligado, Erica González*, Jessica Gould, Annie Hayes, Cindy Hing, Mary Ho, Poplar Haines, Jonathan Helm*, Cindy Hing, Yvonne Jefferson*, Lauren Jenkins, Charlene Lal, Ignacia López, Jennifer Macway, Kimberly Malinowski, Bryan Matlen*, Dale Mendoza, Nicole Nelson, Anh Nguyen, Teresa Nguyen, Katherine O'Leary, Jenna Ornbaun, Sofia Reamer, Alexandra Schade*, Alicia Semiatin, Jason Sharp, Catherine Shih, Ashika Singh*, Catherine Tran, Monique Truchetta, Arlene Visitacion, Hanna Walicki, Lydia Werner*, Alaina White, Heather Wilson, Lindsey Yarbrough*, Jenny Yen, Theresa Yim, Angie Yu

* *Currently Attending Graduate School*

Updated May, 2015