

James P. Selig

University of New Mexico  
Educational Psychology Program  
118 Simpson Hall, MSC05-3040  
1 University of New Mexico  
Albuquerque, NM 87131  
e-mail: selig@unm.edu phone: (505) 277-4317

## Academic Appointment

Assistant Professor of Educational Psychology (August, 2009 – present)  
Department of Individual, Family, & Community Education  
University of New Mexico, Albuquerque, NM

## Education

Ph.D. Quantitative Psychology, University of Kansas, 2009  
Dissertation: *Where has the time gone? The role of time lags in models for longitudinal data.*  
Advisors: Todd D. Little, Ph.D. & Kristopher J. Preacher, Ph.D.  
M.A. Applied Psychology, University of Arkansas at Little Rock, 2002  
B.A. Psychology & Philosophy, University of Arkansas at Little Rock, 1995

## Peer Reviewed Publications

- Goodrich, K. M., Selig, J. P., & Crofts, G. (*in press*). Validation of the Heterosexism Scale with heterosexual parents of lesbian, gay, and bisexual individuals. *Journal of Homosexuality*.
- Steinbrecher, T., Selig, J. P., Cosby, J., & Thorstenson, B. (*in press*). Examining measurement considerations for evaluating special educator effectiveness. *Exceptional Children*.
- Carbonneau, K. J., Marley, S. C., & Selig, J. P. (2013). A meta-analysis of the efficacy of teaching mathematics with concrete manipulatives. *Journal of Educational Psychology*, 105(2), 380-400.
- Goodrich, K. M., Selig, J. P., & Trahan, D. P. (2012). The Self-Report Family Inventory (SFI): An exploratory factor analysis. *Measurement and Evaluation in Counseling and Development*, 45(4), 245-256.
- Preacher, K. J., & Selig, J. P. (2012). Advantages of Monte Carlo confidence intervals for indirect effects. *Communication Methods and Measures*, 6(2), 77-98.
- Selig, J. P., Preacher, K. J., & Little, T. D. (2012). Modeling time-dependent association in longitudinal data: A lag as moderator approach. *Multivariate Behavioral Research*, 47(5), 697-716.
- Wu, Y. P., Selig, J. P., Roberts, M. C., & Steele, R. G. (2011). Trajectories of postpartum maternal depressive symptoms and children's social skills. *Journal of Child and Family Studies*, 4, 414-423.
- Abbott, M., Wills, H., Greenwood, C. R., Kamps, D., Heitzman-Powell, L., & Selig, J. P. (2010). The combined effects of grade retention and targeted small-group intervention on students' literacy outcomes. *Reading & Writing Quarterly*, 26, 4-25.
- McNamara, K. A., Selig, J. P. & Hawley, P. H. (2010). A typological approach to the study of parenting: Associations between maternal parenting patterns and child behaviour and social reception. *Early Child Development and Care*, 180(9), 1185-1202.

- Selig, J. P., Preacher, K. J., & Little, T. D. (2009). Lag as moderator models for longitudinal data. *Multivariate Behavioral Research*, *44*, 853 (abstract).
- Selig, J. P., & Preacher, K. J. (2009). Mediation models for longitudinal data in developmental research. *Research in Human Development*, *6*, 144-164.
- Zuna, N. I., Selig, J. P., Summers, J. A., & Turnbull, A. (2009). Confirmatory factor analysis of a family quality of life scale for families of children without disabilities. *Journal of Early Intervention*, *31*, 111-125.
- Shears, J. K., Whiteside-Mansell, L. McKelvey, L. & Selig, J. P. (2008). Assessing mothers' and fathers' authoritarian attitudes: The psychometric properties of a brief survey. *Social Work Research*, *32*, 179-184.
- Blevins-Knabe, B., Whiteside-Mansell, L. & Selig, J. P. (2007). Parenting and mathematical development. *Academic Exchange Quarterly*, *11*, 76-80.
- Little, T. D., Preacher, K. J., Selig, J. P., & Card, N. A. (2007). New developments in latent variable panel analyses of longitudinal data. *International Journal of Behavioral Development*, *31*, 357-365.

### Edited Books

- Card, N. A., Selig, J. P. & Little, T. D. (Eds.) (2008). *Modeling Dyadic and Interdependent Data in the Developmental and Behavioral Sciences*. New York, NY: Routledge.

### Book Chapters

- Selig, J. P., Hoy, R., & Little, T. D. (in press). Temporal design in organizational research. To appear in E. Paavilainen-Mäntymäki & M. Hassett (Eds.) *Handbook of Longitudinal Research Methods in Studies of Organizations*. Northampton, MA: Elgar Publishing.
- Qi, C. H., Stanton-Chapman, T. L., & Selig, J. P. (in press). Potential language delays and behavior problems in English-speaking Hispanic preschool children in Head Start. In C. H. Qi & T. L. Stanton-Chapman (Eds.), *Preschool education: Language, social skills, and behavioral functioning*. Hauppauge, New York: Nova Science Publishers.
- Wu, W., Selig, J. P., & Little, T. D. (2012). Longitudinal models. In T. D. Little (Ed.), *Oxford handbook of quantitative methods*. New York, NY: Oxford University Press.
- Selig, J. P., & Little, T. D., (2011). Panel and cross-lag models. In B. Laursen, T. D. Little, & N. A. Card (Eds.) *Handbook of developmental research methods*. New York, NY: Guilford.
- Card, N. A., Little, T. D., Selig, J. P. (2008). Using the bivariate Social Relations Model to study dyadic relationships: Early adolescents' perceptions of friends' aggression and prosocial behavior. In N. A. Card, J. P. Selig, & T. D. Little (Eds.) *Modeling Dyadic and Interdependent Data in the Developmental and Behavioral Sciences*. New York, NY: Routledge.
- Selig, J. P., McNamara, K. A., Card, N. A., & Little, T. D. (2008). Techniques for modeling dependency in interchangeable dyads. In N. A. Card, J. P. Selig, & T. D. Little (Eds.) *Modeling Dyadic and Interdependent Data in the Developmental and Behavioral Sciences*. New York, NY: Routledge.
- Selig, J. P., Card, N. A., & Little, T. D. (2008). Latent variable structural equation modeling in cross-cultural research: Multigroup and multilevel approaches. In F.J.R. van de Vijver, D.A. van Hemert & Y. Poortinga (Eds.) *Individuals and cultures in multi-level analysis*. Mahwah, NJ: Lawrence Erlbaum Associates.

## Conference Presentations

- Vazsonyi, A. T. & Selig, J. P. (2013, April) *Developmental precursors of academic achievement trajectories from 5 to 15: Effects by positive parenting and self-control*. Poster presented at the Biennial Meeting for the Society for Research in Child Development, Seattle, WA.
- Steinbrecher, T., Selig, J. P., Cosbey, J., & Thorstenson, B. (2013, April). *Is there value in value-added for special educator effectiveness?* Paper presented at the Council for Exceptional Children, San Antonio, TX.
- Hushman, C. J. , Carbonneau, K. J., Selig, J. P., Marley, S. C., Korzekwa, A., & McCutchen, K. (2013, April) *Time Varying Effects of Causal Diagrams on Learning Outcomes and Perceived Difficulty*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Carbonneau, K., Marley, S.C., & **Selig, J. P.** (2012, April) *A Meta-Analysis of the Efficacy of Mathematic Manipulatives*. Poster presented at the annual meeting of the American Educational Research Association, Vancouver, BC.
- Selig, J. P. (2011, March) *Time as a Moderator in the Analysis of Two Occasion Panel Data*. Paper presented at the Biennial Meeting for the Society for Research in Child Development, Montreal, Quebec, Canada.
- Selig, J. P., Tueller, S. J., Wu, Y. P., & Carbonneau, K. J. (2011, March). *Trajectories of maternal depressive symptoms from 1 to 36 months postpartum, children's problem behavior, and relationship quality*. Poster presented at the Biennial Meeting for the Society for Research in Child Development, Montreal, Quebec, Canada.
- Carbonneau, K. J. & Selig, J. P. (2011, April). *Teacher Judgments of Student Mathematics Achievement: The Moderating Role of Student-Teacher Conflict*. Poster presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Selig, J. P., Preacher, K. P., & Little, T. D. (2009). *Lag as Moderator Models for Longitudinal Data*. Presentation given at the annual meeting of the Society of Multivariate Experimental Psychology, Lincoln City, OR.
- Selig, J. P., & Preacher, K. J., Card, N. A., & Little, T. D. (2008, August). *Multilevel multiple membership models for dyadic data*. Poster presented at the annual meeting of the American Psychological Association, Boston, MA.
- Selig, J. P., Wu, Y. P., & Preacher, K. J. (2008, April). *Parenting and the home environment as mediators of the relationship between maternal depression and child vocabulary*. Poster presented at the biennial meeting of the Society for Research in Human Development, Little Rock, AR.
- Selig, J. P., McNamara, K. A., Ash, A. C., Hawley, P. H. (2007, March). *Parenting and children's Big-Five personality traits*. Poster presented at the Biennial Meeting for the Society for Research in Child Development, Boston, MA.
- McNamara, K. A., Selig, J. P., Hawley, P. H., Ash, A. C. (2007, March). *Parenting, child aggression, and peer acceptance*. Poster presented at the 2007 Biennial Meeting for the Society for Research in Child Development, Boston, MA.
- Baggett, K. M., Carta, J., Selig, J. P., & Eshbaugh, E. (2007, March). *A meta-analytic review of interventions for improving parenting of very young children*. Poster presented at the 2007 Biennial Meeting for the Society for Research in Child Development, Boston, MA.

- Puma, J., Leboeuf, W. A., Carta, J., Spellmann, M., Rodriguez, E. T., Watt, N. F., & Selig, J. P. (2007, March). *Cumulative risk and early childhood outcomes: A comparison of the predictive ability of cumulative risk indices across domains*. Poster presented at the 2007 Biennial Meeting for the Society for Research in Child Development, Boston, MA.
- Little, T. D., & Selig, J. P. (August, 2007). *Overview of the Issues in Testing for Factorial Invariance*. Paper presented at the annual meeting of the American Psychological Association, San Francisco, CA.
- Atwater, J. B., Lefever, J. B., Guest, K. C., Selig, J. P., Keener, L. (2006, June) *Becoming a parent for the first time: A structural model of adolescent and adult mothers' cognitive and emotional readiness to parent during pregnancy and their observed parenting at 4 months*. Paper presented at the 2006 Head Start National Research Conference, Washington DC.
- Selig, J. P., Carta, J., Peterson, C. A., Atwater, J. B., Luze, G., & Little, T. D. (2006, June). *Low-income families' changing risk over time: A longitudinal examination of a cumulative risk index*. Poster presented at the 2006 Head Start National Research Conference, Washington DC.
- LeBoeuf, W. A., Puma, J. E., Carta, J. J., Spellman, M., Rodriguez, E., Watt, N. F., & Selig, J. P. (2006, June). *Optimizing the power of prediction: Second generation of research on cumulative risk and early childhood outcomes*. Poster presented at the 2006 Head Start National Research Conference, Washington DC.
- Blevins-Knabe, B., Selig, J. P., & Whiteside-Mansell, L. (2005, April). *Maternal math skills and children's math performance*. Paper presented at the 2005 Biennial Meeting for the Society for Research in Child Development, Atlanta, GA.
- Selig, J. P., Ledford, E., Card, N. A. & Little, T. D. (2005, April). *When personalities clash: Big five personality and mutual antipathy among children*. Paper presented at the 2005 Biennial Meeting for the Society for Research in Child Development, Atlanta, GA.
- Whiteside-Mansell, L., Vogel, A. L., Hanson, K. L., Conners, N. A., Selig, J. P., Evans, C. J. (2004, August). *Moderation of interpartner conflict and parenting on child behavior*. Poster presented at the 18th Biennial meeting for the International Society for the Study of Behavioral Development, Ghent, Belgium.
- Selig, J. P., Deere, D., Edwards, M., Amundson, C. L., & Whiteside-Mansell, L. (2003, November). *Patterns of risk behavior in adolescents*. Paper presented at the annual meeting of the Mid-South Educational Research Association, Biloxi, MI.
- Pittenger, J.B., Selig, J. P., & Hodge-Selig, A. (1997, July). *Sounds about full to me: Learning to use auditory information to fill vessels*. Poster presented at the 9th International Conference on Perception and Action, Toronto, Canada.
- Selig, J. P., Hodge-Selig, A., & Webb, R. (1997, April). *Applicant response distortion on personality measures*. Paper presented at the 4th Annual Arkansas Undergraduate Research Conference, Arkadelphia, AR.

## Software

- Selig, J. P., & Preacher, K. J. (2008, June). Monte Carlo method for assessing mediation: An interactive tool for creating confidence intervals for indirect effects [Computer software]. Available from <http://www.quantpsy.org>.
- Preacher, K. J., & Selig, J. P. (2010, July). Monte Carlo method for assessing multilevel mediation: An interactive tool for creating confidence intervals for indirect effects in 1-1-1 multilevel models [Computer software]. Available from <http://www.quantpsy.org>.

## Invited Talks & Workshops

- Selig, J. P., & Preacher, K. J. (June 10 – 14, 2013). *Multilevel Modeling: Foundations and Applications*. 11<sup>th</sup> Annual KU Summer Institute, Center for Research Methods & Data Analysis, University of Kansas, Lawrence, KS.
- Selig, J. P. (February, 2012). *Introduction to Multilevel Structural Equation Modeling*. Invited workshop presented at the Society for Research in Child Development Themed Meeting on Developmental Methodology, Tampa, FL.
- Selig, J. P., Preacher, K. J., & Schoemann, A. M. (June 18 – 22, 2012). *Multilevel Modeling: Foundations and Applications*. 10<sup>th</sup> Annual KU Summer Institute, Center for Research Methods & Data Analysis, University of Kansas, Lawrence, KS.
- Selig, J. P. (March, 2011). *Conducting Dyadic Analyses with Peer Relations Data*. Invited workshop presented at the Peer Relations Preconference at the biennial meeting of the Society for Research in Child Development, Montreal, Quebec.
- Preacher, K. J., & Selig, J. P. (June 6 – 10, 2011). *Multilevel Modeling: Foundations and Applications*. 9<sup>th</sup> Annual KU Summer Institute, Center for Research Methods & Data Analysis, University of Kansas, Lawrence, KS.
- Selig, J. P. (March, 2010). *Time moderated effects using latent growth curve models*. Invited talk, Center for Research Methods and Data Analysis, University of Kansas, Lawrence, KS.
- Preacher, K. J., & Selig, J. P. (June 7 – 11, 2010). *Multilevel Modeling: Foundations and Applications*. 8<sup>th</sup> Annual KU Summer Institute, Center for Research Methods & Data Analysis, University of Kansas, Lawrence, KS.

## Funded Research

- Principal Investigator, *A secondary analysis of data from the NICHD Study of Early Childcare*, University of New Mexico, Research Allocation Committee Grant, Summer 2010.
- Co-Principal Investigator with Dr. Cathy Qi, *Exploring the moderating roles of home and classroom quality in the relationships between language, behavior problems, and social skills in children in Head Start programs: A short-term longitudinal study*, College of Education, University of New Mexico, Summer 2012.
- Co-Principal Investigator with Dr. Trish Steinbrecher and Dr. Jay Parkes, *Project GRIST: Growth and readability in standards-based test scores for students with exceptionalities*, College of Education, University of New Mexico, Summer 2013.

## Awards

- Student Affairs Louie Award for Outstanding Service Provider, University of New Mexico, 2012
- Society for Multivariate Experimental Psychology Dissertation Award, 2007
- Society for Research in Child Development Student Travel Award, 2007
- Post Master's Fellowship, Department of Psychology, University of Arkansas at Little Rock, 2002-2004

## Service

### Editorial Boards

*Journal of Humanistic Counseling* (Statistical Consultant), 2012-present.

### Ad-hoc Reviewer for Scholarly Journals

*Applied Psychological Measurement*, 2012

*Behavior Research Methods*, 2011

*Child Development*, 2011-2012

*Developmental Psychology*, 2009 & 2011-2013

*Educational and Psychological Measurement*, 2010

*Educational Research and Evaluation*, 2009, 2012

*European Journal of Psychology in Education*, 2011

*International Journal of Behavioral Development*, 2009.

*Journal of Youth & Adolescence*, 2012

*Multivariate Behavioral Research*, 2009-2011.

*Parenting: Science and Practice*, 2011-2012

*Personality and Social Psychology Bulletin*, 2011-2012

*Psychological Methods*, 2011-2012

*Research in Developmental Disabilities*, 2011

### Reviewer for Conferences

Reviewer for 2013 Biennial Meeting of the Society for Research in Child Development.

Alternate Panel Chair for 2013 Biennial Meeting of the Society for Research in Child Development.

Panel Chair for 2012 Society for Research in Child Development Themed Meeting on Developmental Methodology.

Reviewer for 2011 Biennial Meeting of the Society for Research in Child Development.

### Institutional Service

Search Committee Member, Assistant Professor in Cognition, Learning, & Development, Educational Psychology Program, 2012-2013.

Search Committee Member, Assistant Professor of Family Studies, Family Studies Program, 2012-2013.

Search Committee Member, Visiting Assistant Professor, Educational Psychology Program, 2010-2011.

Alternate Member of the University of New Mexico Main Campus Institutional Review Board (Committee 5), Fall 2010-present.

Interim Member of the University of New Mexico Main Campus Institutional Review Board (Committee 5), Summer 2010.

## Professional Affiliations

American Psychological Association, Member, 2010-present.

Society for Research in Child Development, Member, 2010-present.

## Teaching

### Graduate Courses

*Statistical Software Applications for Education Research*, University of New Mexico (Summer, 2010)

*Conducting Quantitative Educational Research*, University of New Mexico (Fall 2009-present)

*Introduction to Educational Statistics*, University of New Mexico (Fall 2009-present)

*Multiple Regression Techniques as Applied to Education*, University of New Mexico (Fall 2010-present)

*Multilevel Modeling*, University of New Mexico (Spring 2010-present)

*Structural Equation Modeling*, University of New Mexico (Spring 2011-present)

### Undergraduate Course Instructor

*Intermediate Statistics in Psychological Research*, University of Kansas (Fall 2008).

*Statistics in Psychological Research*, University of Kansas (Summer 2007 & Summer 2008).

*Statistics II*, Baker University, (Fall 2005).

*Statistics & Methods I*, University of Arkansas at Little Rock (Fall 2002 to Spring 2004)

*Statistics & Methods II*, University of Arkansas at Little Rock (Fall 2002 to Spring 2004)

*General Statistics*, University of Arkansas at Little Rock (Fall 2001 & Spring 2002).

## References

Todd D. Little, Ph.D. Professor of Quantitative Psychology  
University of Kansas, Department of Psychology  
1425 Jayhawk Blvd  
Watson Library, Room 470  
Lawrence, KS 66045  
Phone: (785) 550-1641 Email: yhat@ku.edu

Kristopher J. Preacher, Ph.D. Assistant Professor of Quantitative Methods  
Psychology & Human Development  
Vanderbilt University  
PMB 552, 230 Appleton Place  
Nashville, TN 37203-5721  
Phone: (615) 343-1648 Email: kris.preacher@vanderbilt.edu

Noel A. Card, Ph.D. Associate Professor  
Division of Family Studies & Human Development  
University of Arizona, McClelland Park Room 315K  
650 N Park Ave  
Tucson, AZ 85721-0078  
Phone: (520) 621-9122 Email: ncard@email.arizona.edu

Leanne Whiteside-Mansell, Ed. D., Professor of Family Medicine  
Department of Family & Preventive Medicine  
College of Medicine, University of Arkansas for Medical Sciences  
521 Jack Stephens Drive #530  
Little Rock, AR 72205-7199  
Phone: (501) 686-7633 Email: whitesidemansellleanne@uams.edu

Pascal R. Deboeck, Ph.D. Assistant Professor of Quantitative Psychology  
University of Kansas, Department of Psychology  
1415 Jayhawk Blvd. Rm 426  
Lawrence, Kansas 66045-7556  
Phone: (785) 864-9881 Email: pascal@ku.edu