

## **Wei Wu, Ph.D.**

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Updated: 1/18/2012

## **EDUCATION**

- Ph.D.* Arizona State University, Tempe, AZ, 85282  
Major: Quantitative Psychology  
Advisor: Dr. Stephen, G. West  
Dissertation: *Evaluating Model Fit for Growth Curve Models in Structural Equation Modeling and Multilevel Modeling Frameworks*  
Awarded by Dec 2008  
Certificate in statistics: Awarded by May 2008
- M.S.* East China Normal University, Shanghai, P. R. China  
Major: Personality Psychology, with honors  
Thesis: *Accuracy in Interpersonal Perception in Internet Chat Rooms*  
Awarded by June 2003
- B.Ed.* East China Normal University, Shanghai, P. R. China  
Major: Special Education in Department of Psychology, with honors  
Minor: Computer Science  
Awarded by June, 1997

## **RESEARCH INTERESTS**

My primary quantitative research interests include growth curve modeling, structural equation modeling, multilevel (mixed) modeling and missing data analysis. I am also interested in the application of these methods in education, social, developmental and health related studies.

## **CURRENT APPOINTMENT**

*Jan. 2009 –* Assistant Professor, Department of Psychology, University of Kansas  
*current*

## RESEARCH EXPERIENCE

- Aug. 2004 – Jan. 2008* Research Assistant, Department of Psychology, Arizona State University  
Supervisors: Dr. Jan Hughes & Dr. Stephen West
- Aug. 2004 – Aug. 2005* Research Assistant, College of Nursing, Arizona State University.  
Supervisors: Dr. Karen Sousa & Dr. Stephen West
- Jan. 2004 – Jan. 2005* Research Assistant, Department of Psychology, Arizona State University  
Supervisors: Dr. Gene Alexander, Dr. Stephen West, and Dr. Leona Aiken
- Aug. 2003 - Jan. 2004* Research Assistant, Department of Psychology, Arizona State University  
Supervisors: Dr. Stephen West & Dr. Siek-Toon Khoo

## TEACHING EXPERIENCES

### Courses Taught at the Graduate Level at University of Kansas

- 2009-current* Psyc 996 Structural Equation Modeling II  
Psyc 693/893 Multivariate Statistics  
Psyc 650/790 Statistical Methodology in Psychology I  
Summer institute: missing data analysis

### Courses Served as TA at Arizona State University

- 2006-2008 Psy 591 Analysis of Missing data (Instructor: Craig Enders)  
Psy 533 Structural Equation Models (Instructor: Roger Millsap)  
Psy 534 Psychometric Methods (Instructor: Roger Millsap)  
Psy 231 Introduction to Statistics (Instructor: Craig Enders)

### Teaching Experience in China

- Spring 2003* Lecturer, Department of Psychology, East China Normal University  
Course: Personality Theories
- July 1997 – July 2000* Teacher and School Psychology Consultant, Hongqiao Airport Middle School,  
Shanghai, China

## PUBLICATIONS

## Journal Articles

Xi, J. Z., Sang, B., Zuo, Z. H., & Wu, W. (in press). Relational cognition of resilient children (China). *Psychological Development and Education*.

Sang, B., Xi, J. Z., Zuo, Z. H., & Wu, W. (2011). Theory of mind in resilient children. *Psychological Science (China)*, 34, 581–587.

Gu, F., & Wu, W. (2011). Using SAS PROC TCALIS for Multigroup Structural Equation Modeling with Mean Structures. *British Journal of Mathematical and Statistical Psychology*, 64, 516-537.

Hughes, J. N., Wu, W., & West, S. G. (2011), Teacher Performance Goal Practices and Elementary Students' Behavioral Engagement: A Developmental Perspective. *Journal of School Psychology*, 49, 1-23.

Parenteau, S. C., Hamilton, N. A. , Wu, W., Latinis, K., Waxenberg, L. B., and Brinkmeyer, M. Y. (2010). The Mediating Role of Secular Coping Strategies in the Relationship between Religious Appraisals and Adjustment to Chronic Pain: The Middle Road to Damascus. *Social Indicators Research*,

Wu, W., & West, S. G. (2010). Sensitivity of SEM Fit Indices to Misspecifications in Growth Curve Models: A Simulation Study. *Multivariate Behavioral Research*. 45, 420–452.

West, S. G., Thoemmes, F., & Wu, W. (2010), Book review: introduction to structural equation modeling: using SPSS and AMOS, by Niels J. Blunch, *Applied Psychological Measurement*.

Wu, W., West, S. G., & Hughes, J. N. (2010). Effect of grade retention in first grade on psychosocial outcomes and school relationships. *Journal of Educational Psychology*, 102, 135-152.

Wu, W., West, S. G., & Taylor, A. B. (2009). Evaluating model fit for growth curve models: integration of fit indices from SEM and MLM frameworks. *Psychological Methods*, 14, 183-201.

West, S. G., & Wu, W. (2008). Evaluating fit in growth models for longitudinal data: Insights from SEM and HLM (abstract). *International Journal of Psychology*, 43, 369.

Wu, W., West, S. G., & Hughes, J. N. (2008). Effect of retention in first grade on children's achievement trajectories over four years: A piecewise growth analysis using propensity score matching. *Journal of Educational Psychology, 100*, 727-740.

Wu, W., West, S. G., & Hughes, J. N. (2008). Short-term effects of grade retention on the growth rate of Woodcock Johnson III broad math and reading scores. *Journal of School Psychology, 46*, 85-105.

Wu, W., & Kong, K. (2002). Cognitive science research on the relationships between personality and emotion: A review, *Psychological Science (China), 4*, 450-452

Wu, W. (1999). Mental health status of students in Airport middle school: A survey, *Changling Education (China), 53*, 12 – 14.

Wu, W., & Jin, Y. (1998). An investigation on the enrollment assessment of mentally retarded students in six special education schools in Shanghai. *Shanghai Education Research (China), 127*, 35 – 38.

## Chapters

West, S. G., Taylor, A. B., & Wu, W. (in press). Model fit and model selection in structural equation modeling, In R. H. Hoyle (Ed.), *Handbook of Structural Equation Modeling*. New York: Guilford Press.

Wu, W., Selig, J. N., & Little, T. D. (in press). Longitudinal data analysis. In Little, T. D. (Ed.) *Handbook of Quantitative Methods*. Oxford.

Wu, W., & Little, T. D. (in press). Quantitative Research Methods. In B. B. Brown and M. Prinstein (Eds.), *Encyclopedia in Adolescence*.

West, S. G., Aiken, L. S., Wu, W., & Taylor, A. B. (2007). Multiple regression: Application of the basics and beyond in personality research. In Robins, R. W., Fraley, R. C., & Krueger, R. F. (Eds.), *Handbook of research methods in personality psychology*. New York: Guilford Press.

Khoo, S.-T., West, S. G., Wu, W., & Kwok, O-M. (2005). Longitudinal methods. In M. Eid & E. Diener (Eds.), *Handbook of psychological measurement: A multimethod perspective*. Washington, DC: American Psychological Association books.

## Manuscripts under Review

Wu, W., & West, S. G. (first revision). Detecting Misspecification in Mean Structures

for Growth Curve Models: Performance of Pseudo R2 and Concordance Correlation Coefficients. Structural Equation Modeling.

Xi, J. Z., Tang, X. Y., Zuo, Z. H., & Wu, W. (under review). A comparative study on differences in emotional responses and changes after emotional arousals between high and low resilient individuals.

Xi, J. Z., Tang, X. Y., Zuo, Z. H., & Wu, W. (under review). A comparative study on differences in emotional intelligence and emotional self-regulation between high and low resilient individuals.

### **Manuscripts in Preparation**

Wu, W., Lang, K. M., & Little, T. D. A simple method of assessing model fit in multiply imputed data.

Pornprasertmanit, S., Wu, W., & Little, T. D. Say goodbye to cutoff criteria: Monte Carlo approach to evaluating model fit for structural equation models

Hafdahl, A., & Wu, W. EM algorithm for meta-analysis with missing data

Wu., W., & Fan, J. Alternative procedure to mediation analysis with missing data

Wu., W., & Preacher, K. three nonlinear growth curve models.

### **CONFERENCE PRESENTATIONS**

*Oct 2011* West, S. G., Hughes, J. N., Wu, W., & Moser, E. S. (2011) Effects of Retention in Grade 1 on Achievement in Math and Reading in Elementary School. Presented in the Society for Multivariate Behavioral Research annual meeting, Norman, Oklahoma.

*April 2011* Gu. F. & Wu. W. (2011). PATH and LISMOD languages in SAS PROC TCALIS for multigroup comparisons. SAS Global Forum, Las Vegas, NV

*April 2011* Gu. F. & Wu. W. (2011). Using SAS PROC TCALIS for multigroup structural equation modeling with mean structures. SAS Global Forum, Las Vegas, NV.

*Aug. 2010* Wu, W., & West, S. G. Concordance Correlations in Evaluating Model fit for Longitudinal Models: Sensitivity to misspecifications and influencing factors. Presented at the Convention of the American Psychological Association, San Diego, CA.

*April 2010* Wu, W., Hughes, J. N., & West, S. G. Teacher Performance Goal Practices and Elementary Students' Behavioral Engagement: A Developmental Perspective. Presented in the American Educational Research Association 2010 annual meeting, Denver, Colorado.

- Oct 2009* Little, T. D., Wu, W., & Kyle, L. M. A Simple Method of Assessing Model Fit in Multiply Imputed Data. Paper presented at Annual Meeting of the Society of Multivariate Experimental Psychology, Oregon.
- May 2009* Wu, W. & West, S. G., Evaluation of SEM Fit Indices for Growth Curve Models: Sensitivity to Misspecification and Cutoff Criteria. Paper Presented at the American Psychological Science Annual Meeting, San Francisco.
- Aug. 2008* West, S. G., & Wu, W. Evaluating fit in growth models for longitudinal data: Insights from SEM and HLM. Paper Presented at the International Congress of Psychology, Berlin, Germany.
- Oct. 2007* Wu, W., West, S. G., & Hughes, J. N. Effect of retention in first grade on children's achievement trajectories over four years: A piecewise growth analysis using propensity score matching. Paper presented at Society of Multivariate Experimental Psychology Graduate Student Pre-Conference, Chapel Hill NC.
- April 2006* West, S. G., Wu, W., & Ryu, E. Growth curve models: An introduction. Workshop Presented at Western Psychological Association, Palm Springs, California.
- Aug. 2005* Wu, W., West, S.G. & Hughes, J. N. Effects of Grade Retention on Growth Rate in Achievement. Poster presented at the Convention of the American Psychological Association, Washington, DC.
- Nov. 2005* Wu W., West S. G., Aiken L. S., Caselli R. J., Santerre-Lemmon L. E., Merkley. T. L., Chen K., Reiman E. M. & Alexander G. E. Effect of APOE 4 on longitudinal rates of change of verbal memory performance in cognitively normal adults. Poster presented at the Society for Neuroscience Annual Meeting, Washington, DC.
- April 2005* Wu W., West S. G., Aiken L. S., Caselli R. J., Santerre-Lemmon L. E., Merkley. T. L., Chen K., Reiman E. M., & Alexander G. E. Effect of APOE 4 on longitudinal rates of change of verbal memory performance in cognitively normal adults. Presented to the ESAC/ARC Alzheimer Annual Meeting, Phoenix, AZ.

#### GRANT ACTIVITY

- June 2010 – June 2012* – New Faculty General Fund Program (PI) (\$8000): Concordance correlations in evaluating model fit for growth curve models.
- June 2011 – May 2015* – NSF grant (PI) (\$400,026):Planned missing research designs: power and validity of planned missing data designs in longitudinal research

## AWARDS AND HONORS

- 2003 – 2008 Graduate Assistantship, Department of Psychology, Arizona State University  
Oct. 2007 Travel grant to attend “Annual Society of Multivariate Experimental Psychology Meeting” at Chapel Hill NC  
March 2005 NIH travel grant to attend “Workshop on Multilevel Modeling in Mplus” given by Bengt Muthén at Johns Hopkins University  
2002 Outstanding Graduate Student Scholarship, East China Normal University  
1999 Outstanding New School Psychology Consultant, Changling Education Bureau, Shanghai, China  
1997 Outstanding Graduate Award, East China Normal University, Shanghai, China  
1994, 1996 Outstanding undergraduate, East China Normal University, Shanghai, China  
1994 - 1996 Undergraduate Scholarship, East China Normal University, Shanghai, China

## SERVICE

### Dissertation Committee

James Selig	Ph.D	2009
Vince Stagg	Ph.D	2009
Mike Clark	Ph.D	2010
Kalani Makanui	Ph.D	2011
Emily Fall	Ph.D	2011
Ihno Lee	Ph.D	2011

### Memberships in Professional Associations and Societies

- American Psychological Association (APA; Divisions 5)  
American Psychological Society (APS)  
American Educational Research Association (AERA; Divisions H)

### Review Activity

#### Ad-hoc Reviewer

- Structural Equation Modeling  
Multivariate Behavioral Research  
Journal of Developmental Psychology  
Behavioral Research Methods  
Applied Psychological Measurement  
Journal of Educational Psychology

## REFERENCES

- Dr. Todd D. Little* Professor, Department of Psychology, University of Kansas,  
1415 Jayhawk Blvd, Lawrence, KS 66045  
Phone: (785) 864-9804  
Email: [yhat@ku.edu](mailto:yhat@ku.edu)
- Dr. Stephen G. West* Professor, Department of Psychology, Arizona State University, Tempe,  
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Phone: (480)965-7339  
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- Dr. Leona S. Aiken* Professor, Department of Psychology, Arizona State University, Tempe,  
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- Dr. Roger E. Millsap* Professor, Department of Psychology, Arizona State University, Tempe,  
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- Dr. Craig Enders* Professor, Department of Psychology, Arizona State University, Tempe,  
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