

# Jacquelyn Sue Pennings

## *Curriculum Vitae*

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### EDUCATION:

- Ph.D. 2009            Texas Christian University, Fort Worth, TX  
                         Doctor of Philosophy, Experimental Psychology
- M.S. 2005            Texas Christian University, Fort Worth, TX  
                         Master of Science, Experimental Psychology
- B.S. 2001            Belmont University, Nashville, TN  
                         Bachelor of Science, Magna Cum Laude, Psychology Major/Statistics  
                         Minor, Honors Program

### ACADEMIC APPOINTMENTS:

- 2017 –            **Research Assistant Professor**, Vanderbilt University Medical Center, Nashville, TN  
Present            Department of Orthopaedic Surgery and Rehabilitation
- 2012, 2014        **Adjunct Faculty**, Texas Christian University, Fort Worth, TX  
                         Department of Kinesiology, Course taught: Graduate statistics

### OTHER EMPLOYMENT:

- 2016 – 2017        **Biostatistician**, Vanderbilt University Medical Center, Nashville, TN
- 2008 – 2017        **Statistician & Director of Nonprofit Research**, Elite Research LLC,  
                         Carrollton, TX
- 2015 – 2016        **Statistical Research Specialist**, Division of Research, Tennessee Department of  
                         January Mental Health and Substance Abuse Services, Nashville, TN
- 2013 – 2016        **Senior Statistical Consultant**, Texas Woman's University, Denton TX
- 2005 – 2009        **Research Coordinator**, TCU Institute of Child Development, Fort Worth, TX
- 2004 – 2005        **Lab Instructor/Teacher Assistant**, Texas Christian University, Fort Worth, TX  
                         Department of Psychology
- 2004 – 2005        **Academic Athletic Services**, Texas Christian University

## PROFESSIONAL ORGANIZATIONS:

- American Statistical Association
- Middle Tennessee Psychological Association
- Alpha Chi National College Honor Scholarship Society
- Southeastern Psychological Association
- Psi Chi, National Honor Society in Psychology  
President 1999 –2000, Belmont University Chapter  
Vice President 2000 –2001, Belmont University Chapter
- Gamma Beta Phi, National Honor Society  
Treasurer 1999 – 2000, Belmont Chapter
- Phi Eta Sigma National Honor Society

## PROFESSIONAL ACTIVITIES:

### Presentations, Seminars, Lectures

Pennings, J. S. (2011, June-August). *Summer Intern Training for Data Cleaning and Statistical Analysis*. Elite Research, Carrollton, TX.

Pennings, J. S. & Paulson, R. M. (2011, April 4-21). *SPSS and Statistics Training Series - Beginner, Intermediate, and Advanced*. Daily training course (12 hrs./week) held in Carrollton, TX.

Pennings, J.S. & Paulson, R.M. (2011, February 18). *Statistics Using SPSS and Computing Effect Sizes*. Seminar presented at University of North Texas, Denton, TX.

Pennings, J. S. (2010, June-August). *Summer Intern Training for Data Cleaning and Statistical Analysis*. Elite Research, Carrollton, TX.

Pennings, J. S. & Paulson, R. M. (2009, May). *Research Design and Methods for Non-Profit Research*. Workshops presented at Scripture Union, Accra, Ghana (May 19) and One Hope, Mbabane, Swaziland (May 21).

Paulson, R. M. & Pennings, J. S. (2009, May 13, 14), *Choosing Appropriate Research Design and Statistical Analysis*. Workshops presented at Daystar University and Pan Africa Christian University (PACU), Nairobi, Kenya.

Paulson, R. M. & Pennings, J. S. (2009, May 18). *Structural Equation Modeling with Amos and Lisrel*. Seminar for Global Network for Environment and Economic Development Research, Ibadan, Nigeria.

Paulson, R. M. & Pennings, J. S. (2008, December 12). *Importance of Statistics, Use of Statistics in Nonprofits, and Statistical Tricks and Traps*. Presented at the Global Research Workshop at OneHope, Pompano Beach, FL.

## **Continuing Education**

NIH Perspectives on Peer Review (ENAR, 2017)

Applied Longitudinal Analysis (American Statistical Association, 2016)

Modeling Ordinal Categorical Responses, Examples Using R (American Statistical Association, 2016)

Regression Modeling Strategies Short Course (Vanderbilt University May, 2016)

Analysis of Clinical Trials: Theory and Application (American Statistical Association, 2014).

Genomic Clinical Trials and Predictive Medicine (American Statistical Association, 2014).

Comprehensive PLS Path Modeling Course, April-May 2011.

Adult Attachment Interview Training/Scoring Institute, 2007 (reliability check complete January, 2009).

Crisis Prevention Institute Training, 2005.

Neuroscience, Inc. Training, 2005.

Theraplay Institute Training, Introductory MIM and Theraplay, 2004.

## **GRANT ACTIVITIES:**

### **Ongoing Research Support**

February 2016 – Present (PI: Kristin Swygert, DPT, PhD)  
Funded by Neuropoint Alliance (NPA)  
*QOD Quality Improvement Registry*  
Role: REDCap and database manager and developer, biostatistician

February 2016 – Present (PI: Kristin Swygert, DPT, PhD)  
Funded by PCORI  
*Comparative Effectiveness of Postoperative Management for Degenerative Spinal Conditions*  
(CER-1306-01970)  
Role: Biostatistician

November 2016- Present (PI: Derek Griffith, PhD)  
Funded by the AETNA Foundation (06/15/15-06/14/17)  
*Using Tailoring and Technology to Promote Health Equity in African American Men (15-0046)*  
Role: Statistical analysis, manuscript writing

November 2016- Present (PI: Derek Griffith, PhD)  
Funded by the American Cancer Society (07/01/2016- 06/30/2020)  
*Mighty Men: A Faith-based Weight Loss Program to Reduce Cancer Disparities*  
Role: Statistical analysis, manuscript writing

## Completed Research Support

- September 2013 – February 2016 (PI: Debbie Rhea, PhD)  
Funded by Texas Christian University, The Miles Foundation, The Walsh Foundation, Alan C. Fox, and others  
*Project LiiNK (Let's Inspire Innovation 'N Kids)*  
*Role:* assist with grant writing, research design, data management protocols, statistical analysis, statistical write up of results for reports and manuscripts
- January 2011 – February 2016 (PI: Judith McFarlane, PhD)  
Funded by The Houston Endowment  
*Testing Two Global Models to Prevent Violence Against Women and Children: Methods and Policy Implications for a Seven Year Prospective Study*  
*Role:* Research design, instrumentation development, data preparation, scoring, statistical analysis for program evaluation, stakeholder reports, manuscript preparation
- April 2014 – November 2016 (PIs: Bruce Link, Ph.D., Kirstin Painter, PhD)  
Funded by NIH (R01)  
*Assessing Parent to Child Transmission of Mental Illness and Race/Ethnic Stigma (RFA-MD-13-005)*  
*Role:* grant writing, conduct statistical analysis, advise on research design, power/sample size calculations
- April 2011 – August 2015 (PI: Bruce Link, PhD)  
Funded by R-01 NIH/NIMH Submission (General)  
*A School-Based Intervention to Reduce Stigma and Promote Mental-Health Service Use*  
*Role:* Research design, statistical analysis
- May 2006 – June 2013 (PI: Allen Reesor)  
Funded by Maclellan Foundation and Global Ministries - Book of Hope International  
*Attitudes and Behaviors of Youth*  
*Role:* Research design, statistical analysis
- January 12, 2009 – March 5, 2010 (PI: Al York, Kami Ecker)  
Funded by US President's Emergency Plan for AIDS Relief (PEPFAR)  
*Measuring the Effectiveness of iMatter Training on South African School Children*  
*Role:* Research design, statistical analysis for program evaluation

## RESEARCH ACTIVITIES

- 2009                      Doctoral Dissertation Defense  
                                 The Effects of a Touch Intervention on Nurturing Touch, Family Functioning, and Child Behavior
- 2007                      National Institute of Mental Health Research Grant Proposal

From Intervention Development to Services: Exploratory Research Grants

- 2005                      Master's Thesis Defense  
                              Effects of maternal deprivation on problem behavior in post-institutionalized children.
- 2003 – 2009            Developmental Research Lab Projects, Texas Christian University  
                              Child Behavior Checklist, Neurotransmitter profiles, attachment assessments in internationally adopted children, Timberlawn couple interaction scale for parents of internationally adopted children.
- 2001                      Undergraduate Honors Thesis  
                              Self-Perceptions and Physical Education.
- 1999                      Psychology Statistics Laboratory Manual  
                              Used in research methods class - Belmont University beginning Fall 2000.

**PUBLICATIONS:**

1. Rus, A., Stativa, E., Butterfield, M., **Pennings, J.**, Parris, S., Burcea, G., Wenyika, R. (2017). Peer Exploitation: Findings from a Romanian Nationally Representative Sample of Children Living in Long-Term Residential Centres. *Child Abuse Review*. First published online 3/2/2017. Doi:10.1002/car.2464.
2. Rus, A., Tomuletiu, E., Parris, S., **Pennings, J.**, Webster, R. (2016). Comparisons of Emotional and Behavioral Problems Reported by Parents and Teachers in Three Ethnic Groups Living in Romania: A Pilot Study. *Review of Research and Social Intervention*, 55, 63-79.
3. Rhea, D.J., Rivchun, A.P., & **Pennings, J.** (2016). The Liink Project: Implementation of a Recess and Character Development Pilot Study with Grades K & 1 Children. *Texas Association of Health, Physical Education, Recreation, & Dance Journal (TAHPERD)*, 84(2), 14-17.
4. Stativa, E., Rus, A.V., Stanescu, A., **Pennings, J.S.**, Parris, S.R. & Wenyika, R. (2016). Prevalence and Predictors of Anaemia in Romanian Infants 6-23 Months Old. *Journal of Public Health*, 38(3), e272-e281. First published online October 22, 2015 doi:10.1093/pubmed/fdv145
5. Fredland, N., McFarlane, J., Symes, L., Maddoux, J., **Pennings, J.**, Paulson, R., Binder, B. & Gilroy, H. (2016). Modeling the intergenerational impact of partner abuse on maternal and child function at 24 months post outreach: Implications for practice and policy. *Nursing Outlook*, 64(2), 156-169. doi:10.1016/j.outlook.2015.10.005
6. Symes, L., Maddoux, J., McFarlane, J. **Pennings, J.** (2016). A risk assessment tool to predict sustained PTSD symptoms among women reporting abuse. *Journal of Women's Health*, 25(4), 340-347. doi:10.1089/jwh.2015.5287.

7. McFarlane, J., **Pennings, J.**, Liu, F.Q., Gilroy, H., Nava, A., Maddoux, J., Montalvo-Liendo, N., & Paulson, R. (2016). Predicting abused women with children who return to a shelter: Development and use of a rapid assessment triage tool. *Violence Against Women*, 22(2), 189-205
8. Daniels, G., Robinson, J.R., Walker, C., **Pennings, J.S.**, Anderson, S.T. (2015). Gastrointestinal Symptoms among African Americans Undergoing Hemodialysis. *Nephrology Nursing Journal*, 42(6), 539-548.
9. **Pennings, J.**, McFarlane, J., Paulson, R., Fredland, N., Binder, B., Koci, A., & Montalvo-Liendo, N. (2015). Predicting Behavioral Dysfunctions of Youth Living in Violent Homes: A Rapid Assessment Triage Tool. *Journal of Applied Research on Children: Informing Policy for Children at Risk*, 6(1), Article 11.
10. Alexander, G.K., Rollins, K., Walker, D., Wong, L., & **Pennings, J.** (2015). Yoga for self-care and burnout prevention among nurses. *Workplace Health & Safety*, 63(10), 462-470.
11. Fredland, N., McFarlane, J., Symes, L., Gilroy, H., Paulson, R., Nava, A., & **Pennings, J.S.** (2015). Connecting Partner Violence to Poor Functioning for Women and Children: Modeling Intergenerational Outcomes. *Journal of Family Violence*, 30(5), 555-566.
12. McFarlane, J., **Pennings, J.**, Symes, L., Maddoux, J., & Paulson, R. (2014). Predicting Abused Women with Children Who Return to the Abuser: Development of a Risk Assessment Tool. *Journal of Threat Assessment and Management*, 1(4), 274-290
13. Stativa, E. Rus, A.V., Suciu, N., **Pennings, J.S.**, Butterfield, M.E., Wenyika, R., & Webster, R. (2014). Characteristics and prenatal care utilisation of Romanian pregnant women. *The European Journal of Contraception and Reproductive Health Care*, 19(3), 220-226.
14. Rus, A. V., Stativa, E., **Pennings, J. S.**, Cross, D. R., Ekas, N., Purvis, K., & Parris, S.R. (2013). Severe Punishment of Children by Staff in Romanian Placement Centers for School-Aged Children: Effects of Child and Institutional Characteristics. *Child Abuse and Neglect*, 37(12) 1152-1162.
15. Dietz, T., Davis, D, & **Pennings, J. S.** (2012). Evaluating and Comparing the Efficacy of Three Group Therapies for Child Sexual Abuse: The Effect of Incorporating Animal Assisted Therapy, *Journal of Child Sexual Abuse*, 21(6), 665-683
16. Purvis, K. B., Cross, D. R., & **Pennings, J. S.** (2009). Trust-Based Relational Intervention™: Interactive Principles for Adopted Children With Special Social-Emotional Needs. *Journal of Humanistic Counseling, Education & Development*, 49, 3-22.
17. Purvis, K. B., Cross, D. R., & **Pennings, J. S.** (2007). International adoption of post-institutionalized children: Implications for school counselors. *Journal of School Counseling*, 5(22). Retrieved December 3, 2007, from <http://www.jsc.montana.edu/articles/v5n22.pdf>
18. Purvis, K., Cross, D., Kellermann, G., Kellermann, M., Huisman, H, & **Pennings, J. S.** (2006). An experimental evaluation of targeted amino acid therapy with behaviorally at-risk children. *Journal of Alternative and Complementary Medicine*, 11, 591-593.

## CONFERENCE PRESENTATIONS:

1. Pennings, J. (2016, July 31). *The First Self-Administered Survey in North Korea: A Glimpse of Self-Esteem of North Koreans Compared with Peers in 53 Other Countries*. Topic contributed panel Statistics without Borders presented at Joint Statistical Meetings (JSM), Chicago, IL.
2. Pennings, J. (2015, Dec 17). *Suggested Heroin Indicators: 2015, Recommendations from the State Epidemiological Outcomes Workgroup*. Presentation to the State Heroin Working Group. Nashville, TN.
3. Pennings, J. (2015, June 5). *Pattern of treatment admissions over time by substance of abuse and age cohort: 1992-2012*. Presented to State Epidemiological Outcomes Workgroup and TDMHSAS Coalitions. Nashville, TN.
4. Pennings, J. & Allard, L. (2015, March 23). *Pregnant Women and Substance Abuse Treatment in Tennessee*. Presented to TDMHSAS Planning and Policy Council Children's Committee. Nashville, TN.
5. Alexander, G.K., Rollins, K., Walker, D., Wong, L., & Pennings, J. (2015, February 26). *Efficacy of yoga to improve self-care and reduce burnout among nurses*. Podium presentation, 29th Annual Conference of SNRS (Southern Nursing Research Society), Tampa, FL.
6. McFarlane, J., Pennings, J., Liu, F., Gilroy, H., Nava, A., Maddoux, J., Montalvo-Liendo, N., & Paulson, R. (2014). *Predicting Abused Women with Children who Return to Shelter: Development and Use of a Rapid Assessment Triage Tool*. Poster presented at Southern Nursing Research Society 28th Annual Conference, San Antonio, Texas.
7. Pennings, J. S. (2013, August). *Statistical Practice without Borders: Consulting Opportunities and Challenges to Overcome in Developing Countries*. Topic contributed panel Statistics without Borders presented at Joint Statistical Meetings (JSM), Montreal, Quebec.
8. Pennings, J. S. (2009, April). *The Effects of a Touch Intervention on Nurturing Touch, Family Functioning, and Child Behavior*. Paper presented at the Families of Russian and Ukrainian Adoption Conference, Fort Worth, TX.
9. Howard, A. R., Pennings, J. S., Cross, D. R., McKenzie, L. B., & Purvis, K. B. (2009, April). *A Preliminary Evaluation of the Beech Brook Attachment Disorder Checklist*. Poster presented at the Society for Research in Child Development, Denver, CO.
10. Rus, A. V., Pennings, J. S., Kellerman, G., Cross, D. R., & Purvis, K. B. (2009, April). *Profiles of Romanian Infants and Toddlers*. Poster presented at the Society for Research in Child Development, Denver, CO.
11. Purvis, K., Kellermann, G., Cross, D., Kellermann, M., Huisman, H., & Pennings, J.S. (January, 2006). *An Experimental Evaluation of Targeted Amino Acid Therapy with At-Risk Children*.

Poster presentation at the Natural Supplements: An Evidence-Based Update Conference, La Jolla, CA.

12. Pennings, J. S., Kolb, H., & Hawkins, J. (April, 2006). *Behavior problems in internationally adopted children*. Poster presentation at the annual meeting of the Society for Research in Human Development, Fort Worth, TX.
13. Pennings, J. S. (February, 2004). *Couple interactions and child outcomes in special needs adoption*. Paper presentation at the annual Psi Chi Convention, Texas Christian University, Fort Worth, TX.
14. Brummett, R., Pennings, J. S., & Bailey, W. (August 2001). *Relationships among perfectionism, achievement striving, and personal responsibility*. Poster presentation at the annual meeting of the American Psychological Association, San Francisco, CA.
15. Brummett, R., Pennings, J. S., Petersen, J., Wilson, J., Conway, N., Brinkmeyer, B., & Workman, M. (March, 2000). *A psychometric evaluation of the Belmont Perfectionism Scale (BPS)*. Paper presented at the annual meeting of Southeastern Psychological Association, Atlanta, GA.
16. Pennings, J. S. (April, 2001). *Self-Perceptions and Physical Education*. Thesis oral defense at the annual meeting of the Belmont Undergraduate Research Symposium, Nashville, TN.
17. Pennings, J. S., Hamilton, B. L., & Jackson, J. (March, 1999). *The relationship among self-schema, dieting intentions, dieting behaviors, and behavioral control*. Poster presentation at annual meeting of Southeastern Psychological Association, Savannah, GA.
18. Pennings, J. S., Pearson, C., Yandell, L. (April, 2000). *The effects of familiar and unfamiliar melodies on semantic, rhyming, and spatial tasks*. Poster presentation at the annual National Conference of Undergraduate Research, Missoula, MT.
19. Pennings, J. S., & Yandell, L. (April, 1999). *The relationship between adolescent maturation, manipulated self-efficacy, and athleticism*. Paper presentation at the annual Belmont Undergraduate Research Symposium, Nashville, TN.
20. Pennings, J. S., & Yandell, L. (December, 1999). *The effects of pleasantness and familiarity of flavor on motor and cognitive task performance*. Paper presentation at the annual Psychology Undergraduate Research Symposium, Belmont University, Nashville, TN.

## **SKILLS AND TRAINING:**

- Accredited Professional Statistician by American Statistical Association (May 2012 - May 2017).
- Thorough knowledge of basic and applied research, research design, and research methodology with strong statistical skills with knowledge of linear and logistic regression modeling, ANOVA,



principle component analysis, reliability analysis, nonparametric comparisons, and other multivariate techniques including covariance based SEM and partial least squares modeling.

- Experience with federal and foundation grant proposal writing and research evaluation.
- Knowledge and experience with statistical packages: SPSS, R, SmartPLS, Medcalc, Minitab, SYSTAT, LISREL, MLwin and EViews. Limited experience with SAS and Stata.
- Experience with large-scale databases.
- Experience in conducting independent and group research and scale development.
- Experience in analyzing data, write-up and presentation of findings (i.e. journal submissions, poster & conference presentations).
- Experience with online survey development (REDCap, Psychdata, Qualtrics, Survey Monkey, Survey Gizmo, etc) and data collection.

### **AWARDS AND HONORS:**

2003	Green Honors Fellowship Recipient, Texas Christian University
2001	Marie H. Means Outstanding Graduating Student in Psychology, Belmont University
2001	Who's Who Among Students in American Universities & Colleges
Apr, 1998	Psi Chi Research Poster Award – Self-Schema, Intentions, Behaviors, and Behavioral Control with Regard to Dieting Savannah, GA
1997 – 2001	Academic Scholarship, Belmont University
1997 – 2001	National Dean's List
1997 – 2001	Belmont University Dean's Lists