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Education

- 2011 Ph.D. Quantitative Psychology, University of North Carolina at Chapel Hill (expected)
Advisor: David Thissen, Ph.D.
Dissertation: *Logistic Approximations of Marginal Trace Lines for Bifactor Item Response Theory Models.*
- 2009 M.A. Quantitative Psychology, University of North Carolina at Chapel Hill
Advisor: David Thissen, Ph.D.
Thesis: *Item Response Theory for Weighted Summed Scores.*
- 2005 B.S. Psychology (Honors), English Literature, University of Kansas (highest distinction)
Advisor: Todd D. Little, Ph.D.

Research Experience

Research Assistant: University of North Carolina at Chapel Hill, 2006–Present, (Research Advisor: David Thissen, Ph.D., Darren A. DeWalt, MD, MPH)

- Conducted item factor analyses and item response theory evaluations of multiple pediatric health outcomes measures within the Patient-Reported Outcomes Measurement Information System (PROMIS) network.

Research Assistant: School of Public Health, University of North Carolina at Chapel Hill, 2008–Present, (Research Supervisor: Shoou-Yih Daniel Lee, Ph.D., Jessica Lee, Ph.D.)

- Conducted item-level analyses leading to the construction of multiple health literacy scales.

Research Consultant: Horizon Research, Inc., 2009 (Research Supervisor: Daniel Heck, Ph.D.)

- Reviewed methodological and statistical reporting practices in the education literature.

Research Consultant: Injury Prevention Research Center, The University of North Carolina at Chapel Hill, 2008 (Research supervisor: Andres Villaveces, MD, MPH, Ph.D.)

- Evaluated the measurement properties of an injury prevention scale and assisted in presentation and publication of research findings.

Statistical Consultant: Odum Institute for Research in Social Science, University of North Carolina at Chapel Hill, 2007–Present

- Consult with graduate students completing masters and dissertations on statistical methods and offer computing support.

Undergraduate Research: Life Span Institute, University of Kansas, 2001–2005 (Research advisers: Todd D. Little, Ph.D, Noel Card, Ph.D.)

- Created assessments of verbal and physical aggression.
- Conducted a meta-analysis of the gender differences, associations with maladjustment, and correlates of childhood aggression.

Under Review

Irwin, D. E., **Stucky, B. D.**, Langer, M. M., Thissen, D., DeWitt, E. M., Lai, J.-S., Yeatts, K. B., Varni, J. W., & DeWalt, D. A. (revise and resubmit). PROMIS pediatric anger scale: An item response theory analysis.

Lee, J. Y., **Stucky, B. D.**, Rozier, R. G., Lee, J. Y., & Zeldin, L. (under review). Oral Health Literacy Assessment (OHLA): Development of the oral health literacy instrument for Spanish speakers.

Varni, J. W., Thissen, D., **Stucky, B. D.**, Liu, Y., Gorder, H., Irwin, D. E., DeWitt, E. M., Lai, J.-S., Amtmann, D., DeWalt, D. A. (under review). PROMIS parent proxy report scales: An item response theory analysis of the parent proxy report item bank.

Publications

Stucky, B. D., Lee, J. Y., Lee, S. Y. D., & Rozier, R. G. (in press). Development of the Two Stage Rapid Estimate of Adult Literacy in Dentistry (TS-REALD). *Community Dentistry and Oral Epidemiology*.

Stucky, B. D., Gottfredson, N. C., Panter, A. T., Daye, C. E., Allen, W. R., & Wightman, L. F. (in press). An item factor analysis and item response theory-based revision of the Everyday Discrimination Scale. *Cultural Diversity and Ethnic Minority Psychology*.

Stucky, B. D., Gottfredson, N. C., & Panter, A. T. (in press). Item-level factor analysis. In H. Cooper, P. Camic, D. Long, A. T. Panter, D. Rindskopf, & K. Sher (Eds.), *APA Handbook of Research Methodology in Psychology* (Vol. 2). Washington, DC: APA Books.

- Thissen, D., Varni, J. W., **Stucky, B. D.**, Liu, Y., Irwin, D. E., DeWalt, D. A. (in press). Using the PedsQL 3.0 Asthma Module to obtain scores comparable with those of the PROMIS Pediatric Asthma Impact Scale (PAIS).
- DeWitt, E. M., **Stucky, B. D.**, Thissen, D., Irwin, D. E., Langer, M., Varni, J., Lai, J. S., Yeatts, K., & DeWalt, D. D. (in press). Construction of the eight item PROMIS pediatric physical function scales: Built using item response theory. *Journal of Clinical Epidemiology*.
- Lee, D.S.Y, **Stucky, B. D.**, Lee, J. Y, Rozier, R. G., & Bender, D. E. (2010). Short assessment of health literacy-Spanish and English: A comparable test of health literacy for Spanish and English-speakers. *Health Services Research, 45*, 1105-1120.
- Varni, J., **Stucky, B. D.**, Thissen, D., DeWitt, E. M., Irwin, D. E., Lai, J. S., Yeatts, K., & DeWalt, D. D. (2010). PROMIS Pediatric Pain Interference Scale: An item response theory analysis of the pediatric pain item bank. *Journal of Pain, 11*, 1109-1119.
- Yeatts, K., **Stucky, B. D.**, Thissen, D., Irwin, D. E., Varni, J., DeWitt, E. M., Lai, J. S., & DeWalt, D. D. (2010). Construction of the Pediatric Asthma Impact Scale (PAIS) for the Patient-Reported Outcomes Measurement Information System (PROMIS). *Journal of Asthma, 47*, 295-302.
- Villaveces, A., **Stucky, B. D.**, Runyan, C., Moore, K. S., & Berlin, S. (2010). The development of an instrument for evaluating core competencies in violence and injury prevention. *Journal of Public Health Management and Practice, 16*, 337-344.
- Irwin, D. E., **Stucky, B. D.**, Thissen, D., DeWitt, E. M., Lai, J. S., Yeatts, K., Varni, J., & DeWalt, D. D. (2010). Sampling plan and patient characteristics of the PROMIS pediatrics large-scale survey. *Quality of Life Research, 19*, 585-594.
- Irwin, D. E., **Stucky, B. D.**, Langer, M. L., Thissen, D., DeWitt, E. M., Lai, J. S., Varni, J., Yeatts, K., & DeWalt, D. D. (2010). An item response analysis of the pediatric PROMIS anxiety and depressive symptoms scales. *Quality of Life Research, 19*, 595-607.
- Card, N. A., **Stucky, B. D.**, Sawalani, G. M., & Little, T. D. (2008). Direct and indirect aggression during childhood and adolescence: A meta-analytic review of gender differences, intercorrelations, and relations to maladjustment. *Child Development, 79*, 1185-1229.
- Card, N. A., & **Stucky, B. D.** (2005). Providing a foundation for research on girlhood aggression [review of "The development and treatment of girlhood aggression"]. *Contemporary Psychology, 50*(7), article 5.
- Card, N. A., & **Stucky, B. D.** (2005). Understanding aggression and antisocial behavior among girls: A developmental perspective [review of "Aggression, antisocial behavior, and violence among girls"]. *Contemporary Psychology, 50*(19), article 12.

Invited Talks/Conference Presentations

Stucky, B.D., Irwin, D.E., Thissen, D., DeWitt, E.M, Langer, M.M., Scanlon, K., Varni, J.W., Lai, J. –S., Yeatts, K. B., and DeWalt, D.A.. (2009, October). *Sampling and Item Analysis Plan of the PROMIS Pediatrics Large Scale Survey*. Presentation at the International Society of Quality of Life Research, New Orleans, LA.

Lai, J. S., **Stucky, B. D.**, Thissen, D., Irwin, D. E., DeWitt, E. M., Varni, J., Yeatts, K., & DeWalt, D. D. (2009, October). *Development of the PROMIS Pediatric Fatigue Item Bank*. Presentation at the International Society of Quality of Life Research, New Orleans, LA.

Irwin, D. E., **Stucky, B. D.**, Thissen, D., Lai, J. S., DeWitt, E. M., Varni, J., Yeatts, K., & DeWalt, D. D. (2009, October). *Development of the PROMIS Pediatric Emotional Distress Item Banks*. Presentation at the International Society of Quality of Life Research, New Orleans, LA.

DeWitt, E. M., **Stucky, B. D.**, Thissen, D., Irwin, D. E., Varni, J., Lai, J. S., Yeatts, K., & DeWalt, D. D. (2009, October). *Development and Evaluation of PROMIS Pediatrics Physical Function Item Banks*. Presentation at the International Society of Quality of Life Research, New Orleans, LA.

Stucky, B.D., Langer, M.M., Thissen, D., Irwin, D.E., Scanlon, K., DeWitt, E.M, Varni, J.W., and DeWalt, D.A.. (2008, October). *Item analysis of the Emotional Scale of a Pediatric Health Measure*. Presentation at the International Society of Quality of Life Research, Montevideo, Uruguay.

Stucky, B.D., & Thissen, D. (2008, June). *Item Response Theory for Weighted Summed Scores*. Presentation at the International Meeting of the Psychometric Society, Durham, NH.

Serrano, D., & **Stucky, B.D.** (2008, June). *Response Time Item Response Theory*. Presentation at the International Meeting of the Psychometric Society, Durham, NH.

Stucky, B.D., Langer, M.M., Thissen, D., Irwin, D.E., Scanlon, K., DeWalt, D.A., Burwinkle, T.M., Varni, J.W., and DeWitt, E.M. (2008, March). *Progress on a new measure of health-related quality of life for pediatric use: Selected preliminary results from factor-analytic investigations of emotional quality of life*. Presentation at the PROMIS conference, Bethesda, MD.

Langer, M.M., **Stucky, B.D.**, Thissen, D., Irwin, D.E., Scanlon, K., DeWalt, D.A., Burwinkle, T.M., Varni, J.W., and DeWitt, E.M. (2008, March). *Progress on a new measure of health-related quality of life for pediatric use: Selected preliminary results from factor-analytic investigations of social quality of life*. Presentation at the PROMIS conference, Bethesda, MD.

Thissen, D., Langer, M.M., **Stucky, B.D.**, Irwin, D.E., Scanlon, K., DeWalt, D.A., Burwinkle, T.M., Varni, J.W., and DeWitt, E.M. (2008, March). *You can see a lot just by looking*. Presentation at the PROMIS conference, Bethesda, MD.

Stucky, B.D., Gottfredson, N.C., Panter, A.T., Daye, C.E., Allen, W.A., & Wightman, L.F. (2008, May). IRT detects differential item functioning in the Everyday Discrimination Scale. Presentation at the Association for Psychological Science in Chicago, IL.

Gottfredson, N.C., **Stucky, B.D.**, Panter, A.T., Daye, C.E., Allen, W.A. & Wightman, L.F. (2008, May). Local Dependence in the Everyday Discrimination Scale: Findings and Suggestions. Presentation at the Association for Psychological Science in Chicago, IL.

Langer, M. M., **Stucky, B. D.**, Thissen, D., Irwin, D., Scalon, K., DeWitt, E., Varni, J., Burwinkle, T., and DeWalt, D. A. (2008, March). *Progress on a new measure of health-related quality of life for pediatrics: The data sources, analysis plans, and selected preliminary results*. Poster presented at the PROMIS conference, Bethesda, MD.

Wilder, R, DeWitt, E.M., Thissen, D., Langer, M.M., Lee, T., **Stucky, B.D.**, Lovell, D.J., and Weinfurt, K.P. (2008, March). *Item response theory analysis of self-reported CHAQ in Juvenile Idiopathic Arthritis*. Poster presented at the PROMIS conference, Bethesda, MD.

Stucky, B. D., Card, N. A., Sawalani, G. M., & Little, T. D. (2006, March). *Overt and relational forms of aggression and psychosocial maladjustment: A meta-analytic review*. Poster presented at the 11th biennial meeting of the Society for Research on Adolescence, San Francisco, CA.

Stucky, B. D., Sawalani, G. M., Card, N. A., Little, & T. D. (2005, June). *Forms of childhood aggression and personal and interpersonal maladjustment: Preliminary results from a meta-analytic review*. Poster presented at the third annual meeting of the Midwest Social Development Consortium, Lawrence, KS.

Sawalani, G. M., **Stucky, B. D.**, Card, N. A., & Little, T. D. (2005, June). *A meta-analytic review of gender differences in overt and relational aggression: Preliminary findings*. Poster presented at the third annual meeting of the Midwest Social Development Consortium, Lawrence, KS.

Selig, J. P, Ledford, E., Card, N. A., **Stucky, B. D.**, & Little, T. D. (2005, April). When personalities clash: Big Five personality and mutual antipathy among children. In F. C. McFarland & J. Antonishak (Chairs), *Friends, enemies, and jealousy: Longitudinal studies of adolescent problem peer relations*. Presentation at the biennial meeting of the Society for Research in Child Development, Atlanta, GA.

Awards and Honors

- 2008 ISOQOL Early Career Investigators' Award
- 2008 L.L. Thurstone Psychometric Lab Graduate Travel Award
- 2008 American Psychological Science Travel Award
- 2005 University of Kansas Undergraduate Research Award
- 2005 College of Liberal Arts and Sciences J. Michael Young Award
- 2005 Department of English Ilus W. Davis Award
- 2003 Department of Psychology Morrison Award

Ad hoc reviewer

European Journal of Psychology of Education
The Cultural Diversity Journal
Personality and Individual Differences

References

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