

KAREN M. SCHMIDT *

ADDRESS

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PROFESSIONAL POSITIONS

Associate Professor
Quantitative Methods Area
Department of Psychology
University of Virginia
September, 1997 to present

Co-Director of The College Science Scholars Program
University of Virginia
September, 2004 to present

Director of Studies, Brown College
University of Virginia
September, 2004 – June, 2011

AREAS OF EXPERTISE

Quantitative analyses of cognitive, personality, pain, and
lifespan developmental data; item response theory;
test & scale construction;
structural equation modeling; spatial ability;
research methodology

DEGREES

B.A., Magna Cum Laude, 1984, Rockhurst University (Major: Psychology)

M.A, 1991, University of Kansas, (Major Area: Developmental and Child Psychology).
Thesis title: "The structure of newborn abilities as measured by the Neonatal
Behavioral Assessment Scale".

Ph.D., 1997, University of Kansas, (Major Area: Experimental Psychology: Quantitative Methods)
Dissertation title: "The modifiability of age differences in spatial visualization".

***Karen M. Schmidt has also published under the name of Karen M. McCollam.**

HONORS AND AWARDS

Extraordinary Contributor for the Undergraduate Experience, University of Virginia, 2014
 Outstanding Professor Award, Department of Psychology, University of Virginia, 2012
 Undergraduate Research Network Outstanding Faculty Mentor for Undergraduate Research,
 University of Virginia, 2008
 Harrison Award for Undergraduate Advising, University of Virginia, 1999
 Dissertation Award, The American Psychological Association, Science Directorate, 1996
 Sigma Xi, The Scientific Research Society, University of Kansas, 1992
 Alpha Sigma Nu, National Jesuit Honor Society, Rockhurst University, 1982
 Phi Sigma Tau, National Jesuit Philosophy Honor Society, Rockhurst University, 1982

PROFESSIONAL AFFILIATIONS

American Psychological Association, Divisions 1 and 5
 Association for Psychological Science

PUBLICATIONS

Articles

- Kim, H., Schmidt, K. M., Murrah, W. M., Cameron, C. E., & Grissmer, D. (under review). A Rasch analysis of the KeyMath3-Diagnostic Assessment.
- Leis, M., Schmidt, K. M., & Rimm-Kaufman, S. E. (under review). Using the Partial Credit Model (PCM) to evaluate the Student Engagement in Mathematics Scale (SEMS).
- Cox, D. J., Ford, D., Schmidt, K. Singh, H. & Gonder-Frederick, L. (under review). Screening for Drivers at High Risk for Driving Mishaps.
- Erbacher, M. K., Schmidt, K. M., & Bergeman, C. (under review). Relationships among longitudinal measurements of positive and negative affect in later life: An idiographic approach using derivatives.
- Tsang, S., Schmidt, K. M., Vincent, G. M., Odgers, C. L., Salekin, R. T., & Moretti, M. M. (In press). Assessing psychopathy among offending adolescents with the PCL: YV: An item response theory examination and evidence for gender differences. *Personality Disorders: Theory, Research, and Treatment*.
- Singh, H., Gonder-Frederick, L., Schmidt, K., Ford, D., Vajda, K., Hawley, J., & Cox, D. J. (2014). Avoidance of Hyperglycemia in People with Type 1 Diabetes. *Diabetes Management*, 4, (3), 263-271.
- Gonder-Frederick, L. A., Vajda, K. A., Schmidt, K. M., Cox, D. J., DeVries, H., Ozgul, E., Kanc, K., Schächinger, H., & Snoek, F. J. (2013). Examining the Behaviour subscale of the Hypoglycaemia Fear Survey: An international study. *Diabetic Medicine*, 30 (5):603-609.
- Lick, D. J., Patterson, C. J., & Schmidt, K. M. (2013). Recalled social experiences and current psychological adjustment among adults reared by lesbian and gay parents. *Journal of GLBT Family Studies*, 9, 230–253.
- Erbacher, M. K., Schmidt, K. M., Boker, S. M., & Bergeman, C. (2012). Measuring positive and negative affect in older adults over 56 days: Comparing trait level scoring methods using the Partial Credit Model. *Journal of Applied Measurement*, 13,146-164.
- Lick, D. J., Tornello, S. L., Riskind, R. G., Schmidt, K. M., & Patterson, C. J. (2012). Social climate for sexual minorities predicts well-being among heterosexual offspring of lesbian and

- gay parents. *Sexual Research and Social Policy*, 9, 99-112.
- Gonder-Frederick, L. A., Schmidt, K. M., Vajda, K. A., Greear, M. L., Singh, H., Shepard, J. A., & Cox, D. J. (2011). Psychometric Properties of the Hypoglycemia Fear Survey-II for Adults with Type 1 Diabetes Mellitus. *Diabetes Care*, 34, 801-806.
- Lick, D. J., Schmidt, K. M., & Patterson, C. J. (2011). The Rainbow Families Scale (RFS): A measure of experiences among individuals with lesbian and gay parents. *Journal of Applied Measurement*, 12, 222-241.
- Chambers, A. L., Schmidt, K. M., & Wilson, M. N. (2006). Describing differences among a sample of low income fathers: A glimpse into their romantic relationships. *Psychology of Men and Masculinity*, 7, 144-152.
- Kline, T. L., Schmidt, K. M., & Bowles, R. P. (2006). Using LinLog and FACETS to model item components in the LLTM. *Journal of Applied Measurement*, 7, 74-91.
- Williams, M. T., Turkheimer, E., Schmidt, K. & Oltmanns, T. (2005). Ethnic identification biases responses to the Padua Inventory for obsessive-compulsive disorder. *Assessment*, 12, 174-185.
- Kline, T. L., & Schmidt, K. M. (2005). Rasch analysis explicating processing mechanisms of The Object Location Memory Test. *Journal of Applied Measurement*, 6, 382-395.
- Schmidt, K. M. (2004). Item generation: Difficult questions made easier. [Review of the book: *Item generation for test development* (Irvine, S. H., & Kyllonen, P. C., (Eds.). Mahwah, NJ: Erlbaum. *Contemporary Psychology*, 49, 577-579].
- Schmidt, K.M., Llewellyn, P. L., Taylor, G. J., Weber, P.G., Hong, B., Sellers, R., Wise, C., Wolak, C., McGaw, L, & Nielson, S. (2003). Cloninger's Temperament and Character Inventory correlates with personality characteristics of organ donation advocates. *Journal of Clinical Psychology in Medical Settings*, 10, 173-185.
- Schmidt, K. M. (2003). How should we score our tests? [Review of the book: *Test scoring* (Thissen, D, and Wainer, H., (Eds.). Mahwah, NJ: Erlbaum. *Contemporary Psychology*, 48, 374-377].
- Nesselroade, J. R., & Schmidt McCollam, K. M. (2000). Putting the process in developmental processes. *International Journal of Behavioral Development*, 24, 295-300.
- Green, S. B., Hershberger, S. H., Marquis, J., Thompson, M., & McCollam, K. (1999). The overparameterized analysis of variance model. *Psychological Methods*, 4, 214-233.
- McCollam, K. M. (1998). [Review of the book *Models for uncertainty in educational testing*]. *Structural Equation Modeling*, 5, 310-312.
- McCollam, K. M., Embretson, S. E., Mitchell, D. W., & Horowitz, F. D. (1997). Using confirmatory factor analysis to identify newborn behavior structures of the NBAS. *Infant Behavior and Development*, 20, 123-131.
- McCollam, K. M., Embretson, S. E., Horowitz, F. D., & Mitchell, D. W. (1996). Scoring the NBAS: To recode or not to recode. *Infant Behavior and Development*, 19, 63- 69.
- Colombo, J., McCollam, K., Coldren, J., Mitchell, D. W., & Rash, S. (1990). Form categorization in 10-month-olds. *Journal of Experimental Child Psychology*, 49, 173-188.

Book Chapters

- Pritikin, J. N., & Schmidt, K. (2013). A self-report measure for familiarity with mental silence. In W. van Moer, D.A. Celik, and J. L. Hochheimer (Eds.), *Spirituality in the 21st Century: Journeys Beyond Entrenched Boundaries*. Oxford, UK: Inter-Disciplinary Press.
- Schmidt, K. M., & Embretson, S. E. (2012). Item response theory and measuring abilities. In J. A. Schinka and W. F. Velicer (Eds.), *Research Methods in Psychology* (2nd ed.). *Volume 2 of Handbook of Psychology* (I. B. Weiner, Editor-in-Chief). NY: John Wiley & Sons, Inc.
- Bowles, R. P., Schmidt, K. M., Kline, T. L., & Grimm, K. J. (In Press). Ben Wright, Rasch measurement, and cognitive psychology. Manuscript submitted to M. Wilson & G. Englehard (Eds.), Conference proceedings from a Festschrift in honor of Ben Wright.
- Schmidt, K. M., & Embretson, S. E. (2003). Item response theory and measuring abilities. In J. A. Schinka and W. F. Velicer (Eds.), *Research Methods in Psychology* (Pp.429-445). *Volume 2 of Handbook of Psychology* (I. B. Weiner, Editor-in-Chief). NY: John Wiley & Sons, Inc.
- Embretson, S. E., & Schmidt McCollam, K. M. (2000). Psychometric approaches to understanding and measuring intelligence. In R. J. Sternberg (Ed.). *Handbook of Human Intelligence*. (Pp. 423-444). NY: Cambridge University Press.
- Embretson, S. E., & Schmidt McCollam, K. M. (2000). A multicomponent Rasch model for measuring covert processes: Application to lifespan ability changes. In M. Wilson & G. Englehard, (Eds.), *Objective measurement: Theory into practice (Vol. 5)* (Pp. 203-218). NJ: Ablex.
- McCollam, K. M. Schmidt (1998). Latent trait and latent class models. In G. M. Marcoulides, (Ed.), *Modern methods for business research* (Pp. 23-46). NJ: Erlbaum.

Project Reports

- Schmidt, K. M., Bowles, R. P., Kline, T. L., Deboeck, P. & McArdle, J. J. (October 12, 2001). *Jefferson Psychometric Lab Psychometric Scaling Progress Report Presented to The College Board for The Rainbow Project Data*. CONFIDENTIAL DATA.
- Schmidt, K. M., Bowles, R. P., Kline, T. L., Deboeck, P., & McArdle, J. J. (December 17, 2001). *Jefferson Psychometric Lab Psychometric Scaling Progress Report Presented to The College Board for The Rainbow Project Data*. CONFIDENTIAL DATA.
- Schmidt, K. M., Bowles, R. P., Kline, T. L., Deboeck, P., & McArdle, J. J. (February 15, 2002). *Jefferson Psychometric Lab Psychometric Scaling Progress Report Presented to The College Board for The Rainbow Project Data*. CONFIDENTIAL DATA.
- Schmidt, K. M., & Llewellyn, P. L. (August 25, 2000). *Exceptional Requestors Project Report delivered to United Network of Organ Sharing (UNOS)*. Houston, TX.
- Schmidt, K. M., & Llewellyn, P. L. (July 17, 2000). *Exceptional Requestors Project Report delivered to United Network of Organ Sharing (UNOS)*. Chicago, IL.
- Schmidt, K. M., & Llewellyn, P. L. (May 16-17, 2000). *Exceptional Requestors Project Report delivered to United Network of Organ Sharing (UNOS)*. San Antonio, TX.
- Schmidt, K. M., & Llewellyn, P. L. (January 7, 2000). *Exceptional Requestors Project Report*

delivered to United Network of Organ Sharing (UNOS). San Francisco, CA.

CONFERENCE PROCEEDINGS

Schmidt, K. M., Bowles, R. P., & Giras, T. C. (2004). Human factors questionnaire measurement of engineer decision frequency (Pp. 124-128). *COMPRAIL Conference on Rail Safety*, Dresden, Germany: WIT Press.

MANUSCRIPTS IN PREPARATION

Schmidt, K. M. How much does it hurt? Understanding personality influences on pain reports in chronic pain patients.

Schmidt, K. M. More is not better: A procedure for reducing the number of categories in error-prone polytomous rating scales

CURRENT, PENDING, and PAST FUNDING PROPOSALS

Krupski, T., and Schmidt, K. (2014). Validation of the DiRECT (Digital Rectal Exam Clinical Tool). Proposal submitted to the Academy of Distinguished Educators. Total Costs: \$43,980. Funded. Project Period: 7/1/14 – 6/30/15. Role: Co-Investigator.

Erisir, A. (2014). Taste thalamus: Developing an animal model. Proposal submitted to the NIH. Total Costs: \$416,970. Not funded. Proposed Project Period: 9/1/14 -8/31/16. Role: Collaborator.

Erisir, A. (2014). Synaptic Afferent-Target Relations in Gustatory NTS. Competitive renewal proposal submitted to the NIH (R01). Total Costs: \$1,925,919. Not funded. Proposed Project Period: 9/01/2014 - 8/31/2019. Role: Collaborator.

Krupski, T. (2014). The Digital Rectal Exam Clinical Tool (DiRECT) Project. Proposal submitted to the Society of Urology Chairpersons and Program Directors (SUCPD Concept Proposals RFA). Total Costs: \$25,000. Not funded. Proposed Project Period: 6/01/14 – 5/31/16. Role: Co-Investigator.

Cox, D. J., Barrett, E., Weltman, A., Schmidt, K., and Banton, T. (2014). A translational study determining the impact of timing and duration of aerobic walking on metabolic control and personal preferences among adults recently diagnosed with Type 2 Diabetes. Proposal submitted to the ADA. Total Costs: \$199,642. Not funded. Proposed Project Period 7/1/14 – 6/31/15. Role: Co-Investigator.

Murrah, W.M., Hulleman, C.S. Meyer, J. P., & Schmidt, K. M. (2013). Psychometric Foundations of Intervention Fidelity Measures. Proposal submitted to IES. Total Costs: \$199,986. Not funded. Proposed Project Period: 07/01/2014 - 12/31/2015. Role: Co-Investigator.

Cox, D.J., Gonder-Frederick, L., Banton, T., & Schmidt, K. M. (2013). Secondary Analyses of Diabetes Driving.com National Sample.. Proposal submitted to NIH. Total Costs: \$435,000. Not funded. Proposed Project Period: 7/1/14 - 6/30/16. Role: Co-Investigator.

Cox, D. J., McCall, A., Singh, H., Taylor, A., & Yancy, W. S. (2012). Self-monitoring of Blood Glucose (SMBG) as an Educational Tool and a Negative Feedback Loop to Reinforce Blood Glucose Lowering and Discourage blood Glucose Elevating Self-management behaviors in Adults with Newly Diagnosed T2DM. Proposal submitted to LifeScan, Inc. Total Costs: \$183,857. Funded. Project Period: 10/31/12 - 10/31/13. Role: Consultant.

Schmidt, K., & Spies, J. (2011). Assessing the Learning of a Programming Language Critical for

- the Advancement of Undergraduate Research. Proposal submitted to the Office of Assessment Studies, University of Virginia. Total Costs: \$1750. Funded. Project Period: 11/1/11 – 6/30/12.
- Petterson, E., & Schmidt, K. M. (2011). Multidimensional item response theory test information and differential item functioning in the SAT. Proposal submitted to The College Board. Total Costs: \$20,100. Funded. Project Period: 10/01/11 - 7/01/12. Internal fund for faculty member: \$2755.
- Krupski, T. & Schmidt, K. (2011). Creating a digital rectal exam proficiency tool. Proposal submitted to the Academy of Distinguished Educators. Total costs: \$14,946. Funded. Project Period: 7/1/11 – 6/30/12.
- Gonder-Frederick, L., Ritterband, L. & Schmidt, K. (2007). Hypoglycemia Fear Survey: Properties, Interpretation and Dissemination. Proposal submitted to the NIH/NIDDK. Total Costs: \$525,000. Funded. Project Period: 5/1/08 – 4/30/10.
- Cox, D., Gonder-Frederick, L., Clarke, W., Ritterband, L., Schmidt, K., Ingersol, K. and Kovatchev, B. (2007). Identifying Driving Risk Factors in T1DM and their Reduction via Behavioral Intervention. Proposal submitted to the NIH/NIDDK. Total Costs: \$3,744,482. Funded. Project Period: 7/1/2008-7/1/2013.
- Nathanson, L. & Schmidt, K. M. (2008). Differential Item Functioning in College-Level Examination Program (CLEP®) Subject Tests by Testlet and Item Type. Proposal submitted to The College Board. Total Costs: \$20,100. Funded. Project Period: 10/01/08 - 7/01/09.
- Nathanson, L., & Schmidt, K. M. (2007). Differential Item Function Analysis in ACCUPLACER Subject Tests. Proposal submitted to The College Board. Total Costs: \$20,100. Funded. Project Period: 10/01/07 - 7/01/08.
- Schmidt, K. M., & McArdle, J. J. (2000). *Contemporary Statistical Models to Evaluate and Improve the Construct Validity of New Measures of Academic Success in College*. Proposal submitted to The College Board. Total costs = \$85,058. Funded. Project period: 11/01/00 -10/31/01.
- Newman, D. L., Schmidt, K. M., & Hunter, S. (2001). *Developmental Risk Factors Among Native American Children*. Proposal submitted to National Institutes of Health. Total annual direct costs= \$1,672,381. Funded.
- McArdle, J. J., Nesselroade, J. R., & Schmidt McCollam, K. (2001). *Dynamic Growth & Change in Adult Intellectual Abilities*. Proposal submitted to National Institutes of Aging. Total costs = \$650,507. Funded. Project period: 04/01/01 - 03/31/04.
- Nesselroade, J. N., (Program Director), McArdle, J. J., Salthouse, T., & Schmidt, K., (Participating Faculty) (2001). *Training in Quantitative Modeling in Aging*. Proposal submitted to National Institutes of Health. Funded.
- McArdle, J. J., Nesselroade, J. R., & Schmidt, K.M. (2000). *Longitudinal Methods, Modeling, and Measurement in Contemporary Psychological Research*. Proposal to The APA Science Directorate for an Advanced Teaching Institute (ATI) at The University of Virginia. Funded. Project Period: June 5-8, 2001.
- McCollam, K. M. Schmidt (1999). Proposal to obtain laptop Computer and Projector for the Quantitative Area. Proposal submitted to The University of Virginia General Equipment Fund. Total costs = \$11,000. Funded.
- McCollam, K. M. (1996). *The modifiability of age differences in spatial visualization*. Proposal submitted to the American Psychological Association Science Directorate,

dissertation support. Total costs = \$1000. Funded.

CONFERENCE PRESENTATIONS

- Zee, R., Shaw, N., Smith, R. P., Schmidt, K., & Krupski, T. L. (2015, May). *Partners confirm prostate cancer survivor's dysphoric mood*. Poster submitted to the American Urological Association Annual Meeting, May 15-19, 2015, New Orleans, LA.
- Coffin, A., Berne, K., Wood, D., Schmidt, K., & Erisir, A. (2014, November). *A sample size optimization tool for quantitative comparisons of synaptic circuitry using serial blockface electron microscopy image stacks*. Society for Neuroscience Meeting, November 15-18, Washington, D.C.
- Timberlake, M., Clements, M., Schmidt, K., & Krupski, T. (2014, September). *DiRECT: A Novel Instrument to Teach the Digital Rectal Exam and Assess Proficiency*. Moderated poster presented at the 72nd Annual Meeting of the Mid-Atlantic Section of the AUA, September 18-21, Baltimore, MD.
- Yoder, L. A. G., Kulbok, P. A., & Schmidt, K. M. (2014, September). *Complex relationships among multilevel contextual factors for adolescent health promotion*. The Council for the Advancement of Nursing Science National State of the Science Congress on Nursing Research: Optimizing Health by Addressing Complexity, September 18-20, Washington, D.C.
- Cox, D. J., Gonder-Frederick, L., Ritterband, L., Kovatchev, B., Ingersoll, K., Singh, H., Ford, D., Schmidt, K. & Banton, T. (2014, September). *Internet intervention designed to identify and reduce risk of diabetic driving mishaps, a randomized clinical trial*. Paper presented at the 2014 Meeting of the European Association for the Study of Diabetes, September 15-19, Vienna, Austria.
- Tsang, S., Schmidt, K. M., Vincent, G. M., Odgers, C. L., Salekin, R. T., & Moretti, M. M. (2014, March). *Identifying 'Good' and 'Bad' Items from the Psychopathy Checklist: Youth Version: An Item Response Theory Study*. Paper presented at the 2014 American Psychology and Law Society (AP-LS) Annual Conference, New Orleans, LA.
- Berne, K., Grijalva, W., Coffin, A., Schmidt, K. & Erisir, A. (2014, March). *Sample Optimization Tool for Quantitative Measures of Synaptic Circuitry in Serial Blockface Electron Microscopy Image Stacks*. Poster presented at The Central Virginia Chapter for The Society for Neuroscience 2014 Annual Symposium and Poster Session, March 21, Richmond, VA.
- Cox, D. J., Gonder-Frederick, L., Ritterband, L., Clarke, W., Kovatchev, B., Schmidt, K., Ingersoll, K., Singh, H., Ford, D. & Banton, T. (2014, June). *Internet intervention designed to identify and reduce risk of diabetic driving mishaps: a randomized clinical trial*. Paper presented at the American Diabetes Association Annual Meeting, June 13-17, San Francisco, CA.
- Erbacher, M.K., Schmidt, K. M., Wichers, M., & Bergeman, C. S. (2014, April). *PA and NA items have different optimal collapsed response scales: Results from the Partial Credit Model*. Paper presented at the International Objective Measurement Workshop, March 31-April 2, 2014, Philadelphia, PA.
- Schmidt, K. M. (2014, April). *Modeling item measures: Linear logistic test model elegance*. Paper presented at the International Objective Measurement Workshop, March 31-April 2, 2014, Philadelphia, PA.
- Thomas, S.L., Schmidt, K.M., Erbacher, M. K., & Bergeman, C. S. (2014, April). *What you don't know can hurt you: Missingness and Partial Credit Model estimates*. Paper presented at the International Objective Measurement Workshop, March 31-April 2, 2014, Philadelphia, PA.

- Zee, R., Schmidt, K.M., Polascik, T., Steers, T., & Krupski, T. (2014, May). *Prostate Cancer Partner Perspective- Unmet Need*. Poster presented at the American Urological Association Annual Meeting, May 16-21, 2014, Orlando, FL.
- Massof, R. M., Schmidt, K. M., Laby, D. M., Kirschen, D., & Meadows, D. (2013, September). *Merging Psychophysical and Psychometric Theory to Estimate Global Visual State Measures from Forced-Choices*. Paper presented at IMEKO Joint Symposium, Measurement across Physical and Behavioural Sciences, September 4-5, 2013, Genova, Palazzo Ducale, ITALY.
- Thomas, S. L., Schmidt, K. M., & Ingersoll, K. (2013, May). *Predicting Adherence Beliefs from Clinical and Personality Variables*. Poster presented at the 25th APS Annual Convention, May 23-26, 2013, Washington, D.C.
- Pritikin, J. N. & Schmidt, K. (2013, March). *A self-report measure for familiarity with mental silence*. Paper presented at The Spirituality in the 21st Century Conference, March 2013, Lisbon, Portugal.
- Erbacher, M., Schmidt, K., & Bergeman, C. (2012, February). *Using Derivatives to Examine Individual Differences in Affect Structure Over a Burst of 56 Days of Measurement in Late Adulthood*. Poster presented at the 2012 SRCD Themed Meeting: Developmental Methodology, Tampa, FL.
- Lick, D. J., Tornello, S. L., Riskind, R. G., Patterson, C. J., & Schmidt, K. M. (2012, January). *Community climate predicts psychological adjustment for heterosexual children of gay fathers*. Poster presented at the 2012 Meeting of The Society of Personality and Social Psychology, San Diego, CA.
- Lick, D. J., Patterson, C. J., Schmidt, K. M., & Riskind, R. (2011, August). *Community Climate and Psychological Adjustment for Children of Lesbian and Gay Parents*. Poster presented at the Annual IASR Conference, Los Angeles, CA.
- Singh, H., Gonder-Frederick, L., Ford, D., Schmidt, K. & Cox, D. (2011, June). *Risk Assessment of Severe Hypoglycemia in People with Type 1 Diabetes*. Paper presented at the 2011 Meeting of the American Diabetic Association, San Diego, CA.
- Lick, D. J., Patterson, C. J., & Schmidt, K. M. (2011, May). *It Gets Better: Recalled Experiences among Offspring of Lesbian and Gay Parents*. Poster presented at the 2011 APS Annual Convention, Washington, DC.
- Erbacher, M. K., Schmidt, K. M. & Bergeman, C. (2011, March). *How are you today? Individual differences in affect structure in a sample of older adults across 56 days*. Poster presented at the 2011 Society for Research in Adult Development, Montreal, CN.
- Schmidt, K. M. *More is Not Better: Rescoring Combinations for Lengthy Rating Scales*. (2010, September). Paper presented at the 2010 International Conference on Measurement (ICOM-2010), Bethesda, MD.
- Erbacher, M. K., Schmidt, K. M., Boker, S. M., & Bergeman, C. (2010, September). *Apples to Apples: A comparison of four methods for anchoring PCM trait level scores across time*. Paper presented at the 2010 International Conference on Measurement (ICOM-2010), Bethesda, MD.
- Cook, A. J., Clark, B., Roberts, D. Nelson, K., Schmidt, K. and Parker Jr., B. E. (2010, August). *Actigraphy-based assessment of the functional impact of chronic pain*. Poster presented at the World Pain Conference (IASP), Montreal, CN.
- Cook, A. J., Clark, B., Schmidt, K., Roberts, D. Nelson, K., and Parker Jr., B. E. (2010, August). *Development of a portable, multidimensional computer adaptive testing system for*

- efficient and accurate assessment of chronic pain*. Poster presented at the World Pain Conference (IASP), Montreal, CN.
- Singh, H., Gonder-Frederick, L. Schmidt, K., Ford, D., Hawley, J. & Cox, D. J. (2010, June). *Fear of Hyperglycemia in People with Type 1 Diabetes*. Poster presented at the Meeting of the American Diabetes Association's 70th Scientific Sessions, Orlando, FL.
- Schmidt, K. M., Erbacher, M. K., Schroeder, J. R., Lick, D. J., Ameringer, K. J., & Fried, R. K. (2009, May). *How Much Does It Hurt? Affect, Personality, and Pain Relationships*. Poster presented at the 2009 Association for Psychological Science Meeting, San Fran., CA.
- Erbacher, M. K., Schmidt, K. M., Bergeman, C., & Boker, S. M. (2009, May). *Highs and Lows: Measuring Affect Fluctuations Across 56 Days in Older Adults*. Poster presented at the 2009 Association for Psychological Science Meeting, San Francisco, CA.
- Schmidt, K.M., Cook, A. J., Roberts, D. A., Nelson, K. C., Clark B. R., Parker, Jr., B., & Embretson, S. E. (2008, September). *Calibrating a Multidimensional CAT for Chronic Pain Assessment*. Paper presented at the 2008 International Conference on Measurement (ICOM-2008), Bethesda, MD.
- Erbacher, M. K., Schmidt, K. M., Bergeman, C., & Boker, S. M. (2008, September). *Partial Credit Model Analysis of the PANAS with Additional Items*. Paper presented at the 2008 International Conference on Measurement (ICOM-2008), Bethesda, MD.
- Roberts, D., Schmidt, K. & Forshaw, M. (2008, June). *A new tool for measuring knowledge and beliefs of HIV/AIDS*. Paper presented at the 2008 HIV/AIDS Implementers' Meeting Conference Secretariat, Kampala, Uganda.
- Hurt, C., Wilson, M., Dishion, T., Kavanagh, K., Schmidt, K. (2008, June). *Multigroup Ethnic Identity Measurement: Scale and DIF Analysis*. Poster presented at Head Start's Ninth National Research Conference, Washington, DC.
- Nathanson L., & Schmidt, K.M. (2008, June). *Do College-Level Mathematics Test Items Operate Differently by Subgroup? Applying IRT and DIF analyses to better understand test items and participants*. Poster presented at the conference of the Institute of Educational Sciences, Washington, D.C.
- Cook, A. J., Schmidt, K. M., Roberts, D. A., Nelson, K. C., Clark B. R., & Parker, Jr., B. E. (2008, March). *Can computers take us to the next level of chronic pain assessment? Establishing an item pool for multidimensional adaptive testing*. Paper presented at the New Zealand Pain Society Scientific Meeting, Auckland, NZ.
- Schmidt, K. M., Schroeder, J.R., Lick, D. J., Ameringer, K. J., & Erbacher, M. K. (2008, March). *Partial Credit Model Analyses of Psychological, Social, and Cultural Factors and Relationships with Individual Experiences of Chronic Pain: A Symposium*. Presented at the International Objective Measurement Conference, New York.
- Schmidt, K. M. (2008, March). *Never Getting a Break: Persistent High Pain Intensity Relationships with Personality in Chronic Pain Sufferers*. In K. M. Schmidt et al., *Partial Credit Model Analyses of Psychological, Social, and Cultural Factors and Relationships with Individual Experiences of Chronic Pain: A Symposium*. Paper presented at the International Objective Measurement Conference, New York.
- Schmidt, K. M., Schroeder, J. R., Cook, A., Roberts, D., Clark, B. R., & Parker, Jr., B. E. (2007, May). *Psychometric item response theory (IRT) analysis of the Pain Intensity Numerical Rating Scale (PI-NRS): Scale reduction and relationships with personality*. Poster presented at the 26th Annual American Pain Society Meeting, Washington, D.C.

- Schroeder, J. R., Schmidt, K. M. (2007, May). *Psychometric item response theory (IRT) analysis of the Multidimensional Health Locus of Control scale for chronic pain assessment*. Poster presented at the 26th Annual American Pain Society Meeting, Washington, D.C.
- Schmidt, K. M., Trindle, C. O., & Watkins, R. B. (2006, October). *How we built our residential college*. Paper given to the ACUHO-I Living Learning Conference, Syracuse, NY.
- Schmidt, K. M., Cook, A., Roberts, D. Clark, B. R., & Parker, Jr., B. E. (2006, May). *Psychometric item response theory (IRT) analysis of the Short-Form McGill Pain Questionnaire for chronic pain assessment*. Poster presented at the American Pain Society Conference, San Antonio, TX.
- Kline, T. L., Schmidt, K. M., & McArdle, J. J. *Confirmatory Item Factor Analysis Investigating Applied Quantitative Knowledge Gender Differences* (2006, February). Paper accepted at New Directions in Psychological Measurement With Model-Based Approaches Conference, Atlanta, GA.
- Schmidt, K. M., Bowles, R. P., & Giras, T. C. (2004, May). *Human factors questionnaire measurement of engineer decision frequency*. COMPRAIL Conference on Rail Safety, Dresden, Germany.
- Schmidt, K. M., & Berry, J. (2004, April). *The Metamemory in adulthood scale: Differential item functioning analysis by age reflects differential sensitivity to change*. Poster presented at The Conference on Cognitive Aging, Atlanta, GA.
- Smith, L. L., & Schmidt, K. M. (2004, April). *Modeling age-related performance on spatial visualization tasks*. Poster presented at The Conference on Cognitive Aging, Atlanta, GA.
- Chow, S-M, Kline, T. L., Bowles, R. P., Berry, J. & Schmidt, K. M. (2004, April). *Factorial invariance of the Metamemory in Adulthood Questionnaire*. Poster presented at The Conference on Cognitive Aging, Atlanta, GA.
- Kline, T. L., Bowles, R. P., Chow, S-M, Schmidt, K. M. & Berry, J. (2004, April). *The Metamemory in Adulthood Scale: A rating scale analysis*. Poster presented at The Conference on Cognitive Aging, Atlanta, GA.
- Bowles, R. P., Kline, T. L., Chow, S-M., Berry, J., & Schmidt, K. M. (2004, April). *An item factor analysis of the Metamemory in Adulthood (MIA) instrument*. Poster presented at The Conference on Cognitive Aging, Atlanta, GA.
- Bowles, R. P., & Schmidt, K. M. (2003, April). *Ben Wright, Fundamental Measurement, and Cognitive Psychology*. Poster presented at the Festschrift "A Celebration of the Career and Contributions of Benjamin D. Wright", Chicago, IL.
- Kline, T. L., & Schmidt, K. M. (2003, April). *Fortuitous Advancements in Rasch Analysis Software Packages*. Poster presented at the Festschrift "A Celebration of the Career and Contributions of Benjamin D. Wright", Chicago, IL.
- The Rainbow Project Team. (2002, October). *The Rainbow Project: A plan for augmentation of the SAT*. Paper presented at The Conference of New Directions in Cognitive Science, Neuroscience, Human Performance, and Assessment, Las Cruces, New Mexico. (Karen Schmidt is a member and co-author of the Rainbow Project Team, headed by Robert J. Sternberg).
- Terwilliger, M., Turkheimer, E., Schmidt, K., & Oltmanns, T. (2002, September). *Ethnic identification biased responses to obsessive-compulsive disorder inventories*. Poster

- presented at the annual meeting of The Society for Research in Psychopathology, San Francisco, CA.
- Schmidt, K. M. (2002, August). Cognitive self-efficacy latent classes from the Mixed *Rasch Model*. Poster presented at the annual meeting of The American Psychological Association, Chicago, IL.
- Kline, T.L., & Schmidt, K. M. (2002, August). *Construction and psychometric analysis of the Object Location Memory Test*. Poster presented at the annual meeting of The American Psychological Association, Chicago, IL.
- Chow, S., Nesselroade, J. R., & Schmidt, K. M. (2002, August). *Age differences In task-switching patterns*. Poster presented at the annual meeting of The American Psychological Association, Chicago, IL.
- Schmidt, K. M. (2002, June). Symposium: Understanding cognitive processes by *modeling sources of variation in item difficulty*. (Chair: Karen M. Schmidt).
- Schmidt, K. M. (2002, June). *Self-efficacy classes and their relationship to abstract Reasoning performance*. In K.M. Schmidt (Chair), Understanding cognitive processes by modeling sources of variation in item difficulty. Symposium presented at the annual meeting of the Psychometric Society, Chapel Hill, NC.
- Kline, T. L., & Schmidt, K. M. (2002, June). *Explicating mechanisms of processing in three spatial memory tasks*. In K.M. Schmidt (Chair), Understanding cognitive processes by modeling sources of variation in item difficulty. Symposium presented at the annual meeting of the Psychometric Society, Chapel Hill, NC.
- Deboeck, P., Schmidt, K. M., Bowles, R. P., & Kline, T. L. (2002, June). *Effects of group membership analysis on indicators of cognitive engagement*. In K.M. Schmidt (Chair), Understanding cognitive processes by modeling sources of variation in item difficulty. Symposium presented at the annual meeting of the Psychometric Society, Chapel Hill, NC.
- Schmidt, K. M. (2002, April). *Using the Mixed Rasch Model to discover latent classes of cognitive self-efficacy*. Paper presented at the annual workshop of The Institute for Objective Measurement, New Orleans, LA.
- Kline, T. L., & Schmidt, K. M. (2002, April). *Rasch analysis explicating processing mechanisms of The Object Location Memory Test*. Paper presented at the annual workshop of The Institute for Objective Measurement, New Orleans, LA.
- Terwilliger, M., Turkheimer, E., Schmidt, K., & Oltmanns, T. (2002, January). *Racial Differences in Responses to the Padua Inventory for Obsessive-Compulsive Disorder and its Relationship to Stereotype and Culture*. Poster presented at the annual meeting of The Society for Personality and Social Psychology, Savannah, Georgia.
- Schmidt (McCollam), K. M. (2001, August). *Modifying self-efficacy relationships with predicted and actual performance*. Poster presented at the annual meeting of The American Psychological Association, San Francisco, CA.
- Kline, T.L., & Schmidt (McCollam), K. M. (2001, August). *Individual differences in strategy and gender for spatial visualization performance*. Poster presented at the annual meeting of The American Psychological Association, San Francisco, CA.
- Schmidt, K. M. (2001, June). *Measurement solutions and issues for a rational science via item response theory*. In J. R. Nesselroade (Chair), Making psychology a more

dynamic, quantitative, rational science. Symposium presented at the meeting of The Psychometric Society, Valley Forge, PA.

- Woods, L. N., Wilson, M. N., & Schmidt, K. M. (2001, June). *Classification of personality traits in men who abuse: An item response theory analysis and implications for community treatment*. Poster presentation at the 8th Biennial Conference of the Society for Community Research and Action, Atlanta, GA.
- Woods, L. N., Wilson, M. N., & Schmidt, K. M. (2001, April). *The influence of depressive symptoms on fathers' behaviors and attitudes*. Poster presentation at the biennial meeting of the Society for Research in Child Development, Minneapolis, MN.
- Denton, M. M., & Schmidt, K. M. (2001, April). Gender comparisons in college students for self-efficacy and attributions for success and failure on examinations. Poster presented at the annual meeting of The American Educational Researchers Association, Seattle, WA.
- Schmidt McCollam, K. M., Gomez, R. G., & Denton, M. M. (2000, August). *Individual differences in self-efficacy and abstract reasoning relationships*. Poster presented at the annual meeting of The American Psychological Association, Washington, D.C.
- Kline, T., & Schmidt McCollam, K.M. (2000, August). *Strategy and gender differences in spatial visualization*. Poster presented at the annual meeting of The American Psychological Association, Washington, D.C.
- Melley, A. H., Newman, D. L., & McCollam, K. M. (2000, June). *Development of the Service Utilization Survey (SUS) for use with parents of pre-school age children*. Poster presented at Head Start's Fifth National Research Conference, Washington, D.C.
- McCollam, K. M. Schmidt, & Embretson, S. E. (2000, April). *Measuring modifiability of cognitive performance in older and younger adults*. Poster presented at the Conference on Cognitive Aging, Atlanta, GA, April, 2000.
- McCollam, K. M. Schmidt, & Embretson, S. E. (1999, August). *A multidimensional Rasch model for measuring change in lifespan development*. Paper presented at the annual meeting of The American Psychological Association, Boston, MA.
- McCollam, K. M. Schmidt, & Embretson, S. E. (1999, June). *Decomposing age-related differences in cognition using The General Latent Trait Model for Covert Processes (GLTM-CP)*. Paper presented at The Psychometric Society Meeting, Lawrence, KS.
- McCollam, K. M. Schmidt, Gomez, R. G., & Denton, M. M. (1999, March). *Cognitive self-efficacy and abstract reasoning in college students*. Paper presented at The Virginia Educational Researchers Association, Richmond, VA.
- McCollam, K. M. (1998, August). *A multidimensional item response theory model for understanding developmental change*. In K. M. McCollam (Chair), New methods for measuring developmental changes in latent constructs. Symposium presented at the annual meeting of The American Psychological Association, San Francisco, CA.
- McCollam, K. M., Snowdon, D. A., Kemper, S., & Marquis, J. (1998, April). *Covariation in cognition and physical ability: Findings from The Nun Study*. Poster presented at the Conference on Cognitive Aging, Atlanta, GA.
- McCollam, K. M. Schmidt, & Embretson, S. E. (1998, April). *Spatial visualization processing components in older and younger adults*. Poster presented at the Conference on Cognitive Aging, Atlanta, GA.

- McCollam, K. M., & Embretson, S. E. (1997, August). *Applying the Graded Response Model for examining attentional instability*. Paper presented at the annual meeting of The American Psychological Association, Chicago, IL.
- Embretson, S. E., & McCollam, K. M. (1997, March). *Applications of a Multicomponent Rasch Model to understanding lifespan differences in processing*. Paper presented at the Conference on Objective Measurement, Chicago, IL.
- McCollam, K. M., & Embretson, S. E. (1997, February). *An Item Response Theory model application to cognitive testing*. Paper presented at The New Rules of Measurement Conference, Lawrence, KS.
- McCollam, K. M., Embretson, S. E., & Lyons, K. (1996, August). *A psychometric model identifying age-related decline in spatial ability*. Poster presented at the annual meeting of The American Psychological Association, Toronto, Ontario, Canada.
- McCollam, K. M., & Embretson, S. E. (1996, June). *The Multicomponent Latent Trait Model: Measuring sources of age differences in spatial reasoning*. In S. E. Embretson (Chair), *Applications of item response theory models to substantive psychological issues*. Symposium presented at the annual meeting of The Psychometric Society, Banff, Alberta, Canada.
- Carter, K. A., Mitchell, D. W., McCollam, K. M., & Beatty, K. (1996, April). *Effects of pretraining on the visual discrimination learning of 3-month-old infants*. Poster presented at The International Conference on Infant Studies, Tenth Biennial Meeting, Providence, RI.
- McCollam, K. M., & Embretson, S. E. (1995, August). *Identification of spatial test strategies using the Mixed Rasch Model*. Poster presented at the annual meeting of The American Psychological Association, New York, NY.
- McCollam, K. M., & Embretson, S. E. (1995, June). *Applying the Multicomponent Latent Trait Model for measuring spatial processing components*. Paper presented at the annual meeting of The Psychometric Society, Minneapolis, MN.
- McCollam, K. M., & Embretson, S. E. (1994, November). *Components and processes of spatial cube folding ability*. Paper presented at the annual meeting of The Psychonomic Society, St. Louis, MO.
- McCollam, K. M., & Embretson, S. E. (1994, April). *A componential analysis of spatial folding ability*. Poster presented at the annual meeting of The American Educational Researchers Association, New Orleans, LA.
- McCollam, K. M., Embretson, S. E., & Horowitz, F. D. (1992, May). *A confirmatory factor analysis of newborn abilities as measured by the Neonatal Behavioral Assessment Scale*. Poster presented at the International Conference on Infant Studies, Miami, FL.
- McCollam, K. M., Embretson, S. E., Horowitz, F. D., & Mitchell, D. W. (1992, February). *Identifying ability structures using confirmatory factor analysis: Some insights from newborn assessment data*. Paper presented at The Esther Katz Rosen Symposium on the Psychological Development of Gifted Children, Lawrence, KS.
- Mitchell, D. W., McCollam, K. M., Horowitz, F. D., Embretson, S. E., & O'Brien, M. (1991, April). *The interacting contribution of constitutional, environmental, and information processing factors to early developmental outcome*. Poster presented at The Society for Research in Child Development, Seattle, WA.

- Anselmi, D., Sachs, J., & McCollam, K. (1990, March). *Retold narratives in two genres: Stories and scripted events*. Paper presented at The Conference on Human Development, Richmond, VA.
- McCollam, K. (1990, April). *Form categorization in 10-month-olds*. Poster presented at the International Conference on Infant Studies, Montreal, Canada.
- Sachs, J., Anselmi, D., & McCollam, K. (1989, April). *Story and event encoding of children and adults*. Poster presented at The Society for Research in Child Development, Kansas City, MO.
- Anselmi, D., Sachs, J., & McCollam, K. (1988, April). *Retelling stories*. Paper presented at University of Connecticut Language and Psychology Colloquia Series, Storrs, CT.
- Anselmi, D., Sachs, J., & McCollam, K. (1988, March). *Referential gesturing of children and adults in a storytelling context*. Poster presented at The Conference on Human Development, Charleston, SC.
- Belmont, J., Mitchell, W., McCollam, K., & Heffernan, A. (1986, March). *Retarded versus gifted children's strategy use on varied memory problems: Response to strategy training*. Paper presented at The 19th Annual Gatlinburg Conference on Research and Theory in Mental Retardation/Developmental Disabilities, Gatlinburg, TN.

INVITED PRESENTATIONS

- Schmidt, K. M. (2003, November). *Individual differences in cognitive processes explained by item response theory*. Presentation made to James Madison University Center for Assessment and Research Studies.
- Schmidt, K.M. (2002, October). *Mixed Rasch Model applications to self-efficacy measurement and cognitive test performance*. Presentation made to The University of Richmond Department of Psychology.
- Schmidt, K. M. (2002, March). *Mixed Rasch Model applications for understanding individual differences in cognitive test performance*. Presentation made to The University of Maryland Department of Measurement and Statistics.

UNIVERSITY AND DEPARTMENTAL PRESENTATIONS

- Schmidt, K. M. (2014, April). *More is Not Better: Measurement challenges and Rasch solutions for lengthy rating scales*. Presentation given to The College Science Scholars.
- Schmidt, K.M. (2010, October). *Getting Involved in Research in the Sciences*. Presentation and discussion given to The Undergraduate Research Network.
- Schmidt, K. M. (2010, September). *More is Not Better: Rescoring Combination Solutions for Messy Scoring*. Promofest colloquium presentation given to the Department of Psychology.
- Schmidt, K. M. (2009, October). *More is Not Better: Rescoring Combinations for Messy Scoring*. Presentation given to the Design and Data Analysis Lunch.
- Schmidt, K. M. (2008, January). *How much does it hurt? Measuring the impact of personality in chronic pain sufferers*. Presentation given to the Design and Data Analysis Lunch.
- Schmidt, K. M. (2004, March). *Preparing and surviving the master's thesis and dissertation*.

Presentation given to Wendy Morris' Professional Issues Class.

Schmidt, K. M. (2003, October). *Mixed Rasch model and structural equation model application to spatial visualization performance*. Presentation given to Professor J. McArdle's Structural Equation Modeling class.

Schmidt, K. M. (2003, October). *Measurement, testing, and IRT foundations*. Presentation given to the Design and Data Analysis Lunch.

Schmidt, K. M. (2003, August). *Web-based human factors questionnaire*. Presentation given to the Center for Safety-Critical Excellence Advisory Board Meeting.

Schmidt, K. M. (2003, June). *Interpreting statistical information*. Lecture given to the University of Virginia Law School Faculty.

Schmidt, K. M. (2003, April). *Balancing research and teaching in an assistant professor position*. Lecture given to Wendy Morris' Enhancing Teaching Skills Class.

Schmidt, K. M., & Bowles, R. P. (2003, April). *What Karen and Ryan really do: An Introduction to psychometrics*. Presentation given to The Railroad Safety-Critical Excellence Human Factors Meeting, University of Virginia. Department of Electrical and Control Engineering,

Schmidt, K. M. (2001, November). *Test and scale scoring concerns and IRT solutions*. Presentation given to The Clinical Area Lunch, Department of Psychology.

Schmidt, K. M. (2001, October). *Current psychometric progress using item response theory*. Lecture given to The Cognitive Area Lunch, Department of Psychology.

Schmidt, K. M. (2001, October). *Contemporary statistical models to evaluate and improve the construct validity of new measures of academic success in college*. Lecture given to The Design and Data Analysis Open House, Department of Psychology.

Schmidt, K. M. (2001, September). *Measurement solutions and issues for a rational science via Item response theory*. Lecture given to The Design and Data Analysis Lunch, Department of Psychology.

Schmidt, K. M. (2001, February). *Exploring scoring options for unusual test designs*. Lecture given to The Design and Data Analysis Lunch, Department of Psychology.

Schmidt, K. M. (2001, January). *Recent psychometric analyses of new scales*. Lecture given to the Design and Data Analysis Lunch, Department of Psychology.

McCollam, K. M. (2000, March). *Regression and item response theory*. Lecture given to Professor John McArdle's Advanced Regression course, Department of Psychology.

McCollam, K. M. (1999, November). *A comparison of item response theory analysis software*. Lecture given to the Design and Data Analysis Lunch, Department of Psychology.

McCollam, K. M. (1999, October). *Modeling cognitive processes and abilities using item response theory*. Lecture delivered to the Graduate Lecture Series, Department of Psychology.

McCollam, K. M. (1999, April). *Item response theory models and programs*. Guest lecture delivered to Professor John McArdle's graduate Advanced Computer Applications

course, Department of Psychology.

McCollam, K. M. (1999, April). *Item response theory models*. Lecture delivered to Professor Melvin Wilson's laboratory group, Department of Psychology.

McCollam, K. M. (1998, December). *Measuring individual differences in cognitive ability: How I learned to love item response theory*. Lecture delivered to the Graduate Lecture Series, Department of Psychology.

McCollam, K. M. (1998, September). *Applying a multicomponent latent trait model for Understanding spatial visualization*. Paper delivered at The Design and Data Analysis Lunch, Department of Psychology.

McCollam, K. M. (1997, December). *Estimating change via modifiability: An IRT model application to spatial visualization in older and younger adults*. Paper delivered at The Developmental Area Lunch, Department of Psychology.

McCollam, K. M. *Item response theory models and applications*. (1997, September). Paper delivered at The Design and Data Analysis Lunch, Department of Psychology.

PROFESSIONAL EXPERIENCE

ADVANCED TRAINING INSTITUTES

Instructor for "Longitudinal Methods, Modeling, and Measurement in Contemporary Psychological Research". Organized by McArdle, J. J., Nesselroade, J. R., Schmidt, K. M., and Browne, M. American Psychological Association, Science Directorate Advanced Training Institute, June 2001, 2002, and 2003, The University of Virginia.

TEACHING AND SERVICE

COURSES TAUGHT:

University of Kansas:

- General Psychology
- Statistical Methods for Psychological Research

University of Virginia:

- Fundamentals of Item Response Theory
- Advanced Research Methods & Data Analysis II
- Research Methods & Data Analysis II
- Psychometric Advances in the Study of Human Abilities
- Human Abilities and Complex Cognition
- Item Response Theory
- Assessing and Interpreting Group Differences Across the Lifespan
- Practical Issues in Psychology
- Survey Research in Marketing I and II (Independent Study with Eric Boyd)
- College Science Scholars I and II
- Quantitative Analysis and Methods for Problem-Solving
- Psychological and Behavioral Processes
- Human Thought and Behavior
- Topics in Developmental Psychology
- UVa Backstage
- Course Design Practicum
- Lifespan Development

COURSES ASSISTED:

University of Kansas:

Statistical Methods I and II
Child Psychology

Rockhurst University:

Statistics for the Behavioral Sciences
Experimental Psychology

ADVISING ACTIVITIES:

I advise 15-30 undergraduate psychology majors. In May, 1999, I received one of thirty university-wide Harrison Awards for undergraduate advising. I have participated in summer first year student orientation advising, have served as departmental summer chair, and currently I mentor 70 first, second, third and fourth year College Science Scholar undergraduate students.

GRADUATE SUPERVISED THESIS (PRE-DISSERTATION) RESEARCH:

Joshua Pritikin
Monica Erbacher
Tara Bambrick
Tracy Kline
Ryan Bowles
Likun Hou
Katie Klein (Engineering)
Angela Lee (Engineering)

GRADUATE DISSERTATION COMMITTEES:

P. Kevin Bolinsky
Patricia Hulick
Raymond Chan
Paolo Ghisletta
Camille Preston
Cannon Thomas
Annie Mitchell Elmore
Al Damas
Alison Melley
Emilio Ferrer-Caja
Sy Miin Chow
Anthony Chambers
R. Weylin Sternglanz
Lakeesha Woods
Monnica Williams
David Van Valkenburg
Megan Fulcher
Stacey Coffey Moreau
Tracy L. Kline
Ryan P. Bowles
Kevin Grimm
Nilam Ram
Lijuan Wang
Zhijong Zhang
Lori Nathanson

Ryne Estabrook
 Derek Ford
 Corrie Hurtt Vilsaint
 Monica Erbacher
 Jeffrey Spies
 Yueqin Hu
 Laura Yoder (UVa School of Nursing)
 Siny Tsang

UNDERGRADUATE SUPERVISED THESIS RESEARCH:

Alese Zeman, Distinguished Major in Psychology, B.A., May, 2014 (2nd Reader); Maury Pathfinder Award
 Jesse Grabman, Distinguished Major in Psychology, B.A., May, 2013 (2nd Reader)
 David J. Lick, Distinguished Major in Psychology, B.A., May, 2009; Maury Pathfinder Award
 Katherine D. Ameringer, Distinguished Major in Psychology, B.A., May, 2009
 Juliana Schroeder, Distinguished Major in Psychology, B.A., May, 2008; Maury Pathfinder Award
 Le-Anh Bui, Distinguished Major in Psychology, B.A., May, 2008 (2nd Reader)
 Carlyn Hart, Distinguished Major in Psychology, B.A., May, 2006
 Kathy Nguyen, Distinguished Major in Psychology, B.A., May, 2006 (2nd Reader)
 Valentina Minak, Distinguished Major in Psychology, B.A., May, 2005
 Jessica Lloyd, Distinguished Major in Psychology, B.A., May, 2005 (2nd Reader)
 Bobby Naemi, Distinguished Major in Psychology, B.A., May, 2004; Maury Pathfinder Award
 Kimberly Decker, Distinguished Major in Psychology, B.A., May, 2004 (2nd Reader)
 Pascal Deboeck, Distinguished Major in Psychology, B.A., May, 2002 (2nd Reader)
 Sarah Cottingham, Distinguished Major in Psychology, B.A., May, 2001
 Gina Garofalo, Distinguished Major in Psychology, B.A., May, 2000
 Rachana Bhide, Distinguished Major in Psychology, B.A., May, 2000
 Nicholas Reding, Distinguished Major in Psychology, B.A., May, 1999 (2nd Reader)
 Emily Ruff, Distinguished Major in Psychology, B.A., May, 1999 (2nd Reader)

DEPARTMENTAL AND UNIVERSITY COMMITTEES & SERVICE:

Echols Scholars Faculty Fellow, 2013 to present
 Quantitative Reasoning Assessment Committee, 2013 to present
 UVa STEM & Design Program Information Session speaker, 2011 to present
 Critical Thinking Assessment Committee, 2011-2012
 Scientific Reasoning Assessment Committee, 2009 to present
 Double Hoo Proposal Reviewer, 2011
 Benefactors Society Board Meeting College Science Scholars presentation, 2011
 Graduate Student Well-Being Committee, 2010-2011
 Faculty Associate Lower-Division Advisor, 2007-2010
 Summer Orientation Advising, 2006-2010
 Undergraduate Committee, Psychology, 2006-2007, and 2009 to present
 The Virginia Counselors Workshop Panelist, 2006
 Quantitative Search Committee, 2005, 2009-2010
 Women's Concerns Committee, 2004-2005, and 2008 -2012
 Brown Residential College Faculty Fellow, 2004 to present
 Ad Hoc Graduate Admissions Committee Member, 2003
 Human Subjects Committee Member, 2001-2003
 Summer Departmental Chair, 2001-2003
 Computer Committee, 1999-2000; 2001-2002
 General Faculty Search Committee Member, 1999
 Steering Committee Member, 1999-2000, 2009-2010, 2011-2012
 Ethnic and Minority Relations Committee, 2011-present
 Cognitive Aging Faculty Search Committee, 1999

Days on the Lawn Faculty Panel, 2006 to present
 Undergraduate Research Network Symposium Judge, 2005 & 2007
 BIS Spring Kick-Off Orientation, 2006
 Open Class participant, 2003 to present
 Student Faculty Dinner Series mentoring participant, 2002

COMMUNITY SERVICE

“Quantitative Psychology, Measurement, and Statistics”, presented to AP Statistics Class, Charlottesville High School, November, 2000, and November, 2003

Job Shadowing Day Mentoring participant, Charlottesville Area School Business Alliance, Spring, 1998

NATIONAL EDITORIAL ACTIVITIES

Psychometrika journal manuscript reviewer, 1999-present
Psychological Methods journal manuscript reviewer, 1999-present
Assessment journal manuscript reviewer, 1999-present
American Psychological Association national conference proposal reviewer, 1999-present
American Journal of Psychiatry, 2003
Sex Roles, 2004
APS Psychological Science ad hoc manuscript reviewer, 2011
International Objective Measurement Workshop (IOMW) Psychology Strand Chair, 2004

CONSULTING

University of Colorado and Rick Netemeyer --- *Item response theory scaling project*, August 2011. IRT analyses used to psychometrically analyze a financial proficiency scale.

Alcon Research, Inc. – *Assessment Project*, 2010-2012. Item response theory analyses for measurement tool development.

Barron Associates – *Pain Project, Phase II*, 2007-2009. Item response theory analyses on pain scales to develop computerized adaptive testing application for chronic pain patients.

Barron Associates – *FIP Project*, 2007- 2009. Psychometric analysis (exploratory factor analysis, reliability) of pain scales for functional impact of pain (FIP) study.

Psychological Services Bureau – *Exam revision project*, 2007 to present. Analyze and revise health profession aptitude examinations using IRT.

Geneva Global – *HIV education project*, 2007. Design and IRT analysis of an HIV questionnaire implemented in Ethiopia.

James Madison University, Dept. of Psychology – *ACE-FIPSE Project*, 2004 - 2008. Design and analysis of multi-university collaboration to understand multicultural experiences of college students.

University of Virginia Medical Center, Behavioral Medicine – *Hypoglycemia Project*, 2005. Regression and factor analysis of multiple behavior outcome measures for severe hypoglycemic patients and their driving behavior.

Barron Associates – *Pain Project*, 2004 - 2006. Item response theory analyses on several pain scales in preparation for a computerized adaptive testing application for chronic pain patients.

Consulting Psychologists -- 2003. Consulting experience includes leading research team on item response theory analyses on Myers-Briggs Type Indicator data.

The College Board – *The Rainbow Project*. 2001-2002. Consulting experience includes scoring innovative tests for predicting college success.

UNOS Council for Organ Availability – *Exceptional Requestor Project*, Gloria Taylor, Principal Investigator. 1999-2001. Consulting experience includes development of survey tool, methodological advising, data collection, management, and analysis of requestor data.

RESEARCH EXPERIENCE

<u>Project</u>	<u>Investigator</u>	<u>University</u>	<u>Dates</u>
The Nun Study	David Snowdon Susan Kemper	U. of KY U. of KS	1996-1997

Experience included fitting longitudinal structural equation models of cognitive aging data for 678 nuns.

<u>Project</u>	<u>Investigator</u>	<u>University</u>	<u>Dates</u>
The KID Project	Frances Horowitz	U. of KS	1986 & 1989-1991

Experience included testing, coding, and fitting structural equation models of infant observational data for longitudinal project of infant development.

<u>Project</u>	<u>Investigator</u>	<u>University</u>	<u>Dates</u>
Language Development	Dina Anselmi Jacqueline Sachs	Trinity College	1986-1990

Experience included testing, management and supervision of developmental language project of children's presuppositional knowledge in narrative production.

<u>Project</u>	<u>Investigator</u>	<u>University</u>	<u>Dates</u>
Memory & Problem-Solving in Exceptional Children	John Belmont	University of Kansas	1984-1985

Experience included testing and analyzing data from memory tasks given to gifted children.

ADVANCED QUANTITATIVE SEMINARS ATTENDED

<u>Seminar</u>	<u>Instructor</u>	<u>Date</u>
Item Response Theory	Darrell Bock	Summer 1998
Rasch Modeling	Benjamin Wright	Summer 1998
Structural Equation Modeling	Peter Bentler	Spring 1997
Meta-analysis	Larry Hedges	Fall 1996

Latent Transition Analysis	Linda Collins	Spring 1996
Survival Analysis	Judith Singer John Willett	Fall 1995
Hierarchical Linear Modeling	Steve Raudenbusch	Spring 1995
Structural Equation Modeling	Chris Hertzog	Fall 1994