

Monica Erbacher

102 Gilmer Hall
University of Virginia
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mke2y@virginia.edu

EDUCATION

2010 – Present	University of Virginia Charlottesville, VA Quantitative Psychology Ph.D. Program
2007 – 2010	University of Virginia Charlottesville, VA Quantitative Psychology Master of Arts Degree Conferred May 23 rd , 2010
2003-2007	State University of NY (SUNY) at Fredonia Fredonia, NY Psychology Major, Mathematics Minor Bachelor of Arts Graduated May 19 th , 2007

PUBLICATIONS

Erbacher, M. K., Schmidt, K. M., Boker, S. M., & Bergeman, C. S. (Accepted). Measuring positive and negative affect in older adults over 56 days: Comparing trait level scoring methods using the Partial Credit Model. *Manuscript accepted for publication at the Journal of Applied Measurement*.

Erbacher, M. K., Schmidt K. M., & Bergeman, C. S. (Under review). An idiographic approach using derivatives for studying relationships among longitudinal measurements of positive and negative affect in later life.

Oudekerk, B. A., **Erbacher, M. K.**, & Reppucci, N. D. (In press). A comparison of diversity, frequency, and severity self-reported offending scores among female offending youth. *Psychological Assessment*.

COMPLETED THESES

Master's Thesis

Title: Measuring Positive and Negative Affect in Older Adults Over 56 Days: Comparing Trait Level Scoring Methods Using the Partial Credit Model

Chair: Dr. Karen Schmidt

Committee Members: Dr. Steven M. Boker, & Dr. John R. Nesselroade

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WORKS IN PREPARATION AND PROGRESS

- Erbacher, M. K.**, Schmidt, K. M., & Schroeder, J. R. (Paper in preparation). Affect, catastrophizing, and chronic pain: Psychometric properties of common measures and the role of positive affect.
- Erbacher, M. K.**, Schmidt, K. M., Wichers, M., Bergeman, C. S., Reddy, C., & Wakim, A. (Paper in preparation). Category utilization across two samples and two item sets when measuring affect: Positive and negative affect are different beasts.
- Erbacher, M. K.**, Schmidt, K. M., Wichers, M., Wakim, A., & Reddy, C. (Paper in preparation). Differences in affect responses between depressed and non-depressed female adults: An application of longitudinal differential item functioning.
- Erbacher, M. K.** (Work in progress). Giving affect a clean slate: Examining the importance of context and the psychometric properties of affect adjectives administered with different response scales and frames of reference.
- Erbacher, M. K.** (Work in progress). Dynamics, factor structure, and psychometric properties of affect items in adult female twins.

CONFERENCE PRESENTATIONS

- Erbacher, M. K.**, Schmidt, K. M., & Bergeman, C. S. (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 Development Methodology Themed Meeting of the International Society for Child Development, Tampa, FL.
- Erbacher, M. K.**, Schmidt, K. M., & Bergeman, C. S. (2011, March). *How are you today? Inter-individual differences in the structure of affect in a sample of older adults across 56 days*. Poster presented at the 2011 Meeting of the International Society for Adult Development, Montreal, Canada.
- Erbacher, M. K.**, Schmidt, K. M., Boker, S. M., & Bergeman, C. S. (2010, September). *Apples to apples: A comparison of four methods for anchoring Partial Credit Model trait level scores across time*. Paper presented at the International Conference on Outcomes Measurement (ICOM), Bethesda, MD.
- 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 annual convention for the Association of Psychological Science, San Francisco, CA.
- Erbacher, M. K.**, Schmidt, K. M., Bergeman, C., & Boker, S. (2008, September). *Partial credit model analysis of the PANAS with additional items over 56 days*. Paper presented at the International Conference on Outcomes Measurement (ICOM), Bethesda, MD.
- Erbacher, M. K.** (2008, March). Pain intensity, affect, and catastrophizing in chronic pain sufferers. In K. M. Schmidt (Chair), *Partial credit model analyses of psychological, social, and cultural factors and relationships with individual experiences of chronic pain: A symposium*. Symposium presented at the fourteenth International Objective Measurement Workshop (IOMW), New York, NY.

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CONFERENCE PRESENTATIONS (Cont'd.)

- Erbacher, M. K.** & Strasser, C. R. (2007, April). *Body dissatisfaction and the size of female models in television commercials*. Poster presented at the annual Western Pennsylvania Undergraduate Psychology Conference, Grove City, PA. [also presented at the annual Student Research and Creativity Exposition at SUNY Fredonia, Fredonia, NY (2007, April).]
- Spielmanns, G. I., Pasek, L. F., & **Erbacher, M. K.** (2006, August). *Specificity of CBT for adult anxiety disorders? A meta-analysis*. Poster session presented at the annual convention of the American Psychological Association, New Orleans, LA. [also presented at the annual Student Research and Creativity Exposition at SUNY Fredonia, Fredonia, NY (2006, April), and at the annual Western Pennsylvania Undergraduate Psychology Conference at Gannon University, Gannon, PA (2006, April).]
- Klonsky, B., **Erbacher, M.**, Sweeney, K., Erlichman, R., Davison, V., & Muntz, A. (2006, May). *The Rugrats' rockin' introduction to observational research*. Poster session presented at the annual convention for the Association of Psychological Science, New York, NY.

WORKSHOPS AND GUEST LECTURES

- Erbacher, M. K.** (2012, January). *An introduction to R*. Guest lecture on the basics of the statistical computer program R, given in the undergraduate seminar PSYC 5559: Fundamentals of Item Response Theory, Charlottesville, VA.
- Erbacher, M. K.** (2011, September). *Building a website from a template*. Workshop presented at the weekly Nesselroade Lab meeting, Charlottesville, VA.
- Erbacher, M. K.** (2011, March). *Logistic Regression: A workshop*. Workshop presented at the weekly Developmental Lunch meeting, Charlottesville, VA.
- Erbacher, M. K.** (2009, October). *An introduction to R*. Workshop on the statistical computer program R conducted at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.
- Erbacher, M. K.** (2008, October). *Pearson's Chi-Square*. Guest lecture on the Chi-square test of independence and the Chi-square goodness of fit test, given in the graduate course PSYC 7001: Quantitative Methods I, Charlottesville, VA.

UNIVERSITY PRESENTATIONS

- Erbacher, M. K.** (2011, September). *Affect, coping, and pain intensity in chronic pain sufferers*. Paper presented at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.
- Erbacher, M. K.** (2011, April). *The dynamics of affect: A first look at experience sampling method data*. Paper presented at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.

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UNIVERSITY PRESENTATIONS

- Erbacher, M. K.** (2010, September). *Relationships among derivatives of positive and negative affect in late adulthood*. Paper presented at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.
- Erbacher, M. K.** (2010, April). *The dynamics of affect: A mixed effects linear oscillator model*. Paper presented at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.
- Erbacher, M. K.** (2009, November). *Linking Partial Credit Model analyses of longitudinal affect data: A comparison of anchoring techniques*. Paper presented at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.
- Erbacher, M. K.** (2009, March). *Anchoring techniques in partial credit model analyses of positive affect longitudinal data*. Paper presented at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.
- Erbacher, M. K.** (2008, October). *Back to basics: Evaluating and improving measurement before longitudinally modeling affect*. Paper presented at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.
- Erbacher, M. K.** (2008, March). *Measurement scales and chronic pain samples: What aspects of behavior are we measuring?* Poster presented at the eighth annual Robert J. Huskey Graduate Research Exhibition, Charlottesville, VA.
- Erbacher M, K.** (2008, February). *Pain severity, affect, and catastrophizing: The experience of chronic pain*. Paper presented at the weekly Design and Data Analysis (DADA) Quantitative Lunch meeting, Charlottesville, VA.

RESEARCH PROJECTS

2011 – Present	Topic: Affect, Coping, and Pain Intensity in Chronic Pain Sufferers Advisors: Dr. Karen Schmidt, University of Virginia Collaborators: Juliana Schroeder, University of Chicago Analyses involved: Partial Credit Model Analysis Differential Item Functioning Path Analysis Factor Analysis
2010 – Present	Topic: Emotion Regulation in Adult Female Twins Collaborators: Dr. Marieke Wichers, Maastricht University Dr. Steve Aggen, Virginia Commonwealth University Dr. Timothy Brick, Max Planck Institute Analyses involved: Factor Analysis Item Response Models Dynamical Systems Analysis Longitudinal Modeling Multilevel Modeling Chaos & Catastrophe Models

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RESEARCH PROJECTS (Cont'd)

2008 – Present	Topic: Affect Throughout Adulthood Advisors: Dr. Steve Boker & Dr. Karen Schmidt, University of Virginia Collaborators: Cindy Bergeman, University of Notre Dame Analyses involved: Partial Credit Model Analysis Anchoring techniques Dynamical Systems Analysis Longitudinal Modeling Mixed Effects Models
2007 – 2008	Topic: Personality and Pain in Chronic Pain Sufferers Advisor: Dr. Karen Schmidt, University of Virginia Analyses involved: Confirmatory Factor Analysis Partial Credit Model Analysis
2006 – 2007	Topic: Female Models on Television and Body Dissatisfaction Advisors: Dr. Glen Spielmans & Dr. Andrea Zevenbergen, SUNY Fredonia Dr. Hennessey, Buffalo State College Analyses involved: ANOVA Power analysis
2004 – 2008	Topic: Psychotherapy and Anxiety Disorders Advisor: Dr. Glen Spielmans SUNY Fredonia Analyses involved: Meta-analysis

TEACHING EXPERIENCE

Summer 2010	Design Detectives (Research Methods & Basic Statistics, 7 th and 8 th grade) Instructor Summer Enrichment Program (SEP) Responsibilities: Designed, created, and taught 3 terms of nine 2.5-hr classes covering research methods, design, ethics, and the basics of hypothesis testing, t-tests, and correlations Created hands-on exercises, activities, and experiments Created a research proposal project Held a mock research conference for project presentations
Spring 2010	ISSS 346: Lifespan Development (BIS Program) Co-Instructor University of Virginia School of Continuing and Professional Studies Responsibilities: Created and gave lectures on social and emotional development through mid- and late-adulthood Created and assigned discussion questions Chose articles for weekly reading assignments Created, assigned, and graded short essay questions Graded final projects relevant to mid- and late-adulthood

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TEACHING EXPERIENCE (Cont'd)

Spring 2010	ISSS 346: Lifespan Development (BIS Program) Co-Instructor University of Virginia School of Continuing and Professional Studies Responsibilities: Created and gave lectures on social and emotional development through mid- and late-adulthood Created and assigned discussion questions Chose articles for weekly reading assignments Created, assigned, and graded short essay questions Graded final projects relevant to mid- and late-adulthood
Spring 2009	PSYC 772: Quantitative Methods II Teaching Assistant University of Virginia, Psychology Department Responsibilities: Created and conducted 2-hour bi-weekly lab sessions covering R exercises and statistical concepts Held weekly office hours Held pre-exam review sessions Gained experience with Collab Created exam questions Graded lab homework and exams
Fall 2008	PSYC 771: Quantitative Methods I Teaching Assistant University of Virginia, Psychology Department Responsibilities: Created and presented one in-class lecture on Chi-Square Conducted R exercises at weekly 2-hour lab meetings Held weekly office hours Held occasional review sessions Gained experience with Collab Graded lab homework and exams Created extra materials when necessary
Summer 2008	ISSS 440: Quantitative Analysis Methods for Problem Solving (BIS Program) Co-professor University of Virginia School of Continuing and Professional Studies Responsibilities: Gave lectures Graded homework Conducted SPSS exercises Held office hours when needed Created extra lectures and materials when necessary Gained experience with Toolkit

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TEACHING EXPERIENCE (Cont'd)

Spring 2008	<p>Psych 348: Psychology of Aging Teaching Assistant University of Virginia, Psychology Department Responsibilities: Organized guest speaker Held weekly office hours, extended when necessary Held a review session for the final exam Gained experience with Toolkit</p> <p>Psych 306: Research Methods and Data Analysis Review Teaching Assistant University of Virginia, Psychology Department Responsibilities: Held review sessions upon request Gave in-class review lectures Gave lectures upon professor's absence Held office hours, extended when necessary Gained experience with Toolkit</p>
Fall 2007	<p>Psych 306: Research Methods and Data Analysis Review Teaching Assistant University of Virginia, Psychology Department Responsibilities: Held review sessions upon request Gave in-class review lectures Gave lectures upon professor's absence Held office hours, extended when necessary Gained experience with Toolkit</p>
Spring 2002	<p>Psych 130: Psychology Lab Teaching Assistant State University of NY - Fredonia, Psychology Department Responsibilities: Taught two sections of lab Created, modified, and gave lectures Graded homework Gained experience with Blackboard and Angel</p>

CONSULTING EXPERIENCE

Fall 2010	<p>Statistical Consultant for the Core Knowledge Foundation Responsibilities: Completed several data analysis objectives to determine effectiveness of Core Knowledge program. Created a report explaining analyses and results Created a simplified version of the report as a presentation</p>
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CONSULTING EXPERIENCE (Cont'd)

Fall 2010	Statistical Consultant for the Core Knowledge Foundation Responsibilities: Completed several data analysis objectives to determine effectiveness of Core Knowledge program Created a report explaining analyses and results Created a simplified version of the report as a presentation
Fall 2009 – Spring 2010	Statistical Consultant for the Psychology Department, University of Virginia Responsibilities: Held office hours Gave workshops on desired statistical and computing topics Provided help for a variety of statistical analyses, including ANOVA, regression, mixed effects models, logistic regression, factor analysis (EFA and CFA), latent growth curve models, structural equation models, and non-parametric tests
Summer 2009	Statistical Consultant for the Core Knowledge Foundation Responsibilities: Completed several data analysis objectives to determine effectiveness of Core Knowledge program Created a report explaining analyses and results Created a simplified version of the report as a presentation
Summer 2009	Statistical Consultant for the Psychological Services Bureau, Inc. (PSB) Responsibilities: Computed reliabilities, norms, stanines of a nursing exam Updated test manual with new norms and reliability data

SERVICE

Fall 2011– Spring 2012	Co-student area head of Quantitative Area Organized coffee hour for the Psych Department Serve as resource for students Welcome, engage, and inform prospective students
Fall 2010 – Spring 2012	Organizer for weekly Nesselrode Lab meetings Recruited speakers and discussion leaders Presented Led discussions
Fall 2009 – Spring 2010	Coordinator for weekly Design and Data Analysis Seminar Meeting Invited speakers, Organized lecture and introduction schedules, Presented at least once each semester
Fall 2008 – Spring 2009	Co-leader of the Teaching Concerns Committee Organized seminars, workshops, and panels on teaching-related topics Recruited speakers Gave lectures and led panels and discussions

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COMPUTER PROGRAMS

EQS	Mx	R
GENOVA	Mplus	SPSS
ItemQual	OpenMx	WINSTEPS

Most proficient in: R, OpenMx, and WINSTEPS