Daniel P. Martin

University of Virginia
Department of Psychology
102 Gilmer Hall, P. O. Box 400400
Charlottesville, VA 22904

Cell Phone: (860) 881-0584
Email: dpmartin42@gmail.com
dpmartin42.github.io

Education

Ph.D Quantitative Psychology — Anticipated July 2015
M.A. Quantitative Psychology — December 2013
University of Virginia, Charlottesville, VA

B.S. Applied Mathematics — May 2011
B.A. Psychology
University of Rhode Island, Kingston, RI

Honors and Awards

Virginia Education Science Training Pre-doctoral Fellowship (2013-2015), University of Virginia
NSF Graduate Research Fellowship Honorable Mention (2013), University of Virginia
Third Prize - Oral Presentation (2012), Huskey Research Exhibition, University of Virginia
Presidential Fellowship (2011 - 2016), University of Virginia
Summa Cum Laude (2011), University of Rhode Island
Academic Excellence in Psychology (2011), University of Rhode Island
Undergraduate Achievement in Psychology (2010, 2011), University of Rhode Island
Undergraduate Research Initiative Grant (2010), University of Rhode Island
Honors Program Graduate (2007 - 2011), University of Rhode Island
Centennial Scholarship (2007 - 2011), University of Rhode Island

Research Interests

Exploratory data analysis and visualization; Data mining and machine learning; Mixed-effects modeling; Open science; Reproducible research; STEM education; Statistical pedagogy

Publications

Martin, D. P., & von Oertzen, T. (in press). Growth mixture models outperform simpler clustering algorithms when detecting longitudinal heterogeneity, even with small sample sizes. *Structural Equation Modeling*.

Manuscripts

Martin, D. P., & Rimm-Kaufman, S. E. (revise and resubmit). Do student self-efficacy and teacher-student interaction quality contribute to emotional and social engagement in fifth grade math? *Journal of School Psychology*.

Silberzahn, R., Uhlmann, E. L., **Martin, D. P.**, ..., & Nosek, B. A. (under review). Crowdsourcing data analysis: Do soccer referees give more red cards to dark skin toned players?

Ebersole, C. R. et al. (under review). Many Labs 3: Evaluating participant pool quality across the academic semester via replication.

Martin, D. P., & von Oertzen, T., & Rimm-Kaufman, S. E., (in prep). Efficiently exploring multilevel data with recursive partitioning.

Open Science Collaboration. (in prep). Reproducibility Project: Psychology.

Conference Posters

Martin, D. P., von Oertzen, T., & Rimm-Kaufman, S. E. (2015, March). Efficiently exploring multilevel data with recursive partitioning. Poster to be presented at the biannual meeting of the Society for Research on Educational Effectiveness, Washington, DC.

Martin, D. P., & von Oertzen, T. (2014, May). Growth mixture models outperform simpler clustering algorithms when detecting longitudinal heterogeneity, even with small sample sizes. Poster presented at the 26th annual meeting of the Association for Psychological Science, San Francisco, CA.

Martin, D. P., von Oertzen, T., Smyth, F. L., Melcher, T., & Mitrea, I. (2013, May). Implicit math gender stereotypes changing over time. Poster presented at the 25th annual meeting of the Association for Psychological Science, Washington, D.C.

Duerr, S. R., Baird, G. L., & **Martin, D. P.** (2013, May). Is psychology a science? Lessons from The Batman. Poster presented at the 25th annual meeting of the Association for Psychological Science, Washington, D.C.

Duerr, S. R., Harlow, L. L., **Martin, D. P.**, Baird, G. L., & Poindexter, B.C. (2013, May). Data harvesting: Streamlining the data collection process for meta-analyses. Poster presented at the Association for Psychological Science 25th Annual Convention, Washington, D.C.

Duerr, S. R., Harlow, L. L., Trandafir, E., **Martin, D. P.**, Baird, G. L., & Poindexter, B. (2012, August). Data harvesting: Streamlining the collection of data for meta-analysis and methodological reviews of literature. Poster presented at the 120th annual meeting of the American Psychological Association, Orlando, FL.

Harlow, L. L., Duerr, S. R., **Martin, D. P.**, Fidler, F., & Cumming, G. (2011, August). Multivariate inferences in APA journals: Patterns and guidelines. Poster presented at the

119th annual meeting of the American Psychological Association, Washington, D.C.

University Presentations

Martin, D. P. (2014, October). Efficiently exploring (multilevel) data: Lessons from the data mining community. Presented at Design and Data Analysis (DADA), Charlottesville, VA.

Martin, D. P. (2014, April). Leveling up: A best practices primer for multi-level modeling. Presented at Design and Data Analysis (DADA), Charlottesville, VA.

Martin, D. P. (2013, November). Harder, better, faster, stronger? Growth mixture models outperform hard, computationally quicker clustering algorithms when detecting longitudinal heterogeneity. Presented at Design and Data Analysis (DADA), Charlottesville, VA.

Martin, D. P. (2013, April). More mixtures, more problems. Evaluating analytic techniques to identify heterogeneity in longitudinal growth trajectories. Presented at Design and Data Analysis (DADA), Charlottesville, VA.

Martin, D. P. & Rimm-Kaufman, S. E. (2013, February). How teacher attitudes relate to fidelity of implementation of the Responsive Classroom approach. Poster presented at the Curry Research Conference, Charlottesville, VA.

Martin, D. P. (2012, November). A person-centered approach to measuring mathematics attitudes and self-concepts: An application of latent class analysis. Presented at Design and Data Analysis (DADA), Charlottesville, VA.

Martin, D. P. (2012, April). When good things happen on a bad day: The coupled dynamics of positive life events and negative affect. Presented at Design and Data Analysis (DADA), Charlottesville, VA.

Martin, D. P. (2012, March). Exploring emotion regulation through the dynamics of positive life events, negative life events, and negative affect. Presented at the 12th annual Robert J. Huskey Research Exhibition, Charlottesville, VA.
Third Prize Winner: Oral Presentation in Social and Behavioral Sciences

Martin, D. P. (2011, December). Resiliency in later life: Exploring the dynamics of perceived stress and negative affect. Presented at Design and Data Analysis (DADA), Charlottesville, VA.

Software Development

IAT Package v0.2
- R Package made for cleaning and visualization of Implicit Association Test data

Statistical Consulting Experience

Program for Anxiety, Cognition, and Treatment Lab May 2013 - Present
PI: Dr. Bethany A. Teachman
- Provide ongoing statistical support for research projects and grant proposals
- Projects consulted on have been published in *Cognition and Emotion*, *Cognitive Therapy and Research*, and *Journal of Anxiety Disorders*
- Helped write the analytic plan for a grant proposal funded by the National Institute of Mental Health

Teaching and Mentoring Experience

Introduction to R Workshop, University of Virginia Curry School of Education, Summer 2014

Undergraduate Distinguished Major Supervisor (Cailey Fitzgerald), University of Virginia, 2013

Teaching Assistant, Department of Psychology, University of Virginia
- Research Methods and Data Analysis I Lab, Dr. Fred Smyth, Fall 2012
- Research Methods and Data Analysis II Lab, Dr. Karen Schmidt, Spring 2013

Graduate Teacher Training Program, University of Virginia, 2011 - present

Teaching Assistant, Department of Psychology, University of Rhode Island
- Honors Quantitative Methods in Psychology, Dr. Lisa Harlow, Spring 2011

Co-Instructor, Office of Internships and Experiential Education, University of Rhode Island
- URI 101, David Hayes, M.A., Fall 2010

Tutor, Academic Enhancement Center, University of Rhode Island
- Department of Mathematics Tutor, Fall 2009 - Fall 2010

Professional Memberships

Association for Psychological Science, Graduate Student Affiliate
Psi Chi Psychology Honor Society (2010)
Pi Mu Epsilon Mathematics Honor Society (2009)
National Society for Collegiate Scholars (2007)
Phi Eta Sigma Honor Society (2007)

Computer Skills

Proficient: Windows, Mac OS X, R, SPSS, MPlus, LaTeX
Working knowledge: Python, SAS, STATA, JavaScript, SQL

Departmental Service

Quantitative Faculty Search Committee Graduate Student Representative, Fall 2013 – May 2014

Quantitative Area Representative, Fall 2011 – Fall 2014

References

Dr. Timo von Oertzen (tv9c@virginia.edu)
Department of Psychology - Quantitative
University of Virginia

Dr. Sara E. Rimm-Kaufman (ser4x@virginia.edu)
Curry School of Education - Applied Developmental Science
University of Virginia

Dr. Brian A. Nosek (nosek@virginia.edu)
Department of Psychology - Social
University of Virginia

Dr. Bethany A. Teachman (bteachman@virginia.edu)
Department of Psychology - Clinical
University of Virginia