

Donna L. Coffman

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DEGREES

Ph.D., Quantitative Psychology

Dec. 2005

The University of North Carolina, Chapel Hill NC
Advisor: Robert C. MacCallum

M.A., Psychological Sciences

July 2001

James Madison University, Harrisonburg VA
Thesis: The Effects of Enriched and Impoverished Environments on Preference for a
Saccharine Solution in Rats.

B.S., Psychology

May 1999

James Madison University, Harrisonburg VA
Graduated with distinction in Psychology.
Honors Thesis: The Relationship of Stress, Social Support, and Self-Efficacy with Life
Satisfaction Among Freshman College Students.

CURRENT POSITION

Research Associate

Jan. 2008 - present

The Methodology Center
College of Health and Human Development
The Pennsylvania State University

PREVIOUS POSITION

Ruth L. Kirschstein National Research Service Award Institutional Training Grant National Institute on Drug Abuse Postdoctoral Fellow

Jan. 2006 - Dec. 2007

The Prevention and Methodology Training Program (PAMT)
The Prevention Research Center and The Methodology Center
College of Health and Human Development
The Pennsylvania State University

GRANTS AND AWARDS

2008: Society for Prevention Research (\$250); Travel scholarship awarded to present research at the 16th
Society for Prevention Research Annual Meeting, San Francisco, CA.

2007: National Institute on Drug Abuse (\$750); Travel award to present research at the 115th Annual
Convention of the American Psychological Association, San Francisco, CA.

2007: Society for Prevention Research (\$400); Travel scholarship awarded to present research at the 15th
Society for Prevention Research Annual Meeting, Washington, DC.

2006: National Institute on Drug Abuse (\$500); Travel award to attend Research Training Institute, Bethesda,
MD.

2005: University of North Carolina Graduate School (\$700); Travel grant awarded to present research at the

14th International Meeting of the Psychometric Society, Tilburg, The Netherlands.

2005: Spanish Ministry of Science and Technology Grant BSO2003-08507 (awarded to Albert Maydeu-Olivares); €318 (approx. \$383) travel stipend to present research at the 14th International Meeting of the Psychometric Society, Tilburg, The Netherlands.

2005: Educational Testing Service/ Psychometric Society (\$500); Travel grant awarded to present research at the 70th Annual Meeting of the Psychometric Society, Tilburg, The Netherlands.

2005: L. L. Thurstone Psychometric Laboratory (\$350); Travel grant awarded to present research at the 113th Annual Convention of the American Psychological Association, Washington, D.C.

2004: Spanish Ministry of Science and Technology Grant BSO2003-08507 (awarded to Albert Maydeu-Olivares); €700 (approx. \$980) stipend to travel to the University of Barcelona to conduct research.

2003: American Psychological Association (\$300); Travel grant awarded to present research at the 111th Annual Convention of the American Psychological Association, Toronto, ON.

2001: James Madison University Outstanding Graduate Student Research Award

2000: James Madison University Department of Psychology (\$50); Master's Thesis Research.

1998: James Madison University Office of Sponsored Programs (\$100); Honors Thesis Research.

PUBLICATIONS

Journal Articles

Coffman, D. L. (in press). Model misspecification in covariance structure models: Some implications for power and Type I error. *Methodology*

Coffman, D. L., Maydeu-Olivares, A., & Arnau, J. (2008). Asymptotically distribution-free interval estimation for an intraclass correlation coefficient with applications to longitudinal data. *Methodology*, 4(1), 4-9.

Coffman, D. L., Patrick, M. E., Palen, L., Rhoades, B. L., & Ventura, A. K. (2007). Why do high school seniors drink? Implications for a targeted approach to intervention. *Prevention Science*, 8, 241-248.

Maydeu-Olivares, A., **Coffman, D. L.**, & Hartmann, W. M. (2007). Asymptotically distribution-free interval estimation for coefficient alpha. *Psychological Methods*, 12(2), 157-176.

Maydeu-Olivares, A., & **Coffman, D. L.** (2006). Random intercept item factor analysis. *Psychological Methods*, 11(4), 344-362.

Coffman, D. L., & Millsap, R. E. (2006). Evaluating latent growth curve models using individual fit statistics. *Structural Equation Modeling*, 13(1), 1-27.

Cai, L., Maydeu-Olivares, A., **Coffman, D. L.**, & Thissen, D. (2006). Limited information goodness-of-fit testing in sparse 2^P tables: A follow-up to Bartholomew and Leung's (2002) results. *The British Journal of Mathematical and Statistical Psychology*, 59, 173-194.

Coffman, D. L., & MacCallum, R. C. (2005). Using parcels to convert path analysis models into latent variable models. *Multivariate Behavioral Research*, 40(2), 235-259.

Coffman, D. L., & Gilligan, T. D. (2002). Social support, stress, and self-efficacy: Effects on students' satisfaction. *Journal of College Student Retention: Research, Theory, and Practice*, 4(1), 53-65.

Thesis

Coffman, D. L. (2006). Consequences of Violating the Parameter Drift Assumption in Covariance Structure Models. *Dissertation Abstracts International: Section B: The Sciences and Engineering*, 67(1-B), 594.

Other

Preacher, K. J., & **Coffman, D. L.** (2006, May). Computing Power and Minimum Sample Size for RMSEA [Computer Software]. Available from <http://www.quantpsy.org>

CONFERENCE PRESENTATIONS

Coffman, D. L., & Blozis, S. A. (2008, June). *Residual diagnostics for evaluating latent growth curve models*. Presented at the 73rd Annual Meeting of the Psychometric Society, Durham, NH.

Coffman, D. L., Smith, E., & Caldwell, L. (2008, May). *The effects of the HealthWise intervention on condom use knowledge*. Presented at the 16th Annual Meeting of the Society for Prevention Research, San Francisco, CA.

Sharp, E., **Coffman, D. L.**, & Caldwell, L. (2008, Mar.). *Free time experiences and the transition into and out of substance use during adolescence*. Presented at the 2008 Biennial Meeting of the Society for Research on Adolescence, Chicago, IL.

Coffman, D. L., Smith, E., & Caldwell, L. (2007, Aug.). *Examining Prevention Intervention Effects on Smoking Trajectories Using Individual Fit Indices for Growth Curve Models*. Poster presented at the 115th Annual Convention of the American Psychological Association, San Francisco, CA.

Coffman, D. L., & Blozis, S. A. (2007, Aug.). *Evaluating Individual Fit in Nonlinear Growth Curve Models*. Poster presented at the 115th Annual Convention of the American Psychological Association, San Francisco, CA.

Coffman, D. L., & BeLue, R. (2007, May). *Using Item Response Theory to Detect Differential Item Functioning in Health Disparities Research*. Poster presented at the 15th Annual Meeting of the Society for Prevention Research, Washington, DC.

Coffman, D. L. (2006, July). *Robustness of the CFI, RNI, and RMSEA point estimates and confidence intervals in covariance structure models*. Presented at the 25th Biennial Meeting of the Society for Multivariate Analysis in the Behavioural Sciences, Budapest, Hungary.

Coffman, D. L. (2006, June). *Consequences of violating the parameter drift assumption in covariance structure models on power analysis procedures and Type I error rates for the test of close fit*. Presented at the 71st Annual Meeting of the Psychometric Society, Montreal, Canada.

Coffman, D., Palen, L., Patrick, M., Rhoades, B., & Ventura, A. (2006, May). *Why do high school seniors drink? Implications for a targeted approach*. Presented at the 14th Annual Meeting of the Society for Prevention Research, San Antonio, TX.

Coffman, D. L. (2006, April). *Evaluating fit in structural equation models: Effects of model error*. Poster presented at the National Institute on Drug Abuse Research Training Institute, Bethesda, MD.

Maydeu-Olivares, A., **Coffman, D. L.**, & Hartmann, W. M. (2005, Oct.). *An asymptotically distribution free (ADF) interval estimator for coefficient alpha*. Presented at the Society of Multivariate Experimental Psychology, Lake Tahoe, CA.

Coffman, D. L., & Millsap, R. E. (2005, August). *Evaluating latent growth curve models using individual fit statistics*. Poster presented at the 113th Annual Convention of the American Psychological Association, Washington D.C.

Coffman, D. L., & Maydeu-Olivares, A. (2005, July). *Asymptotically distribution-free interval estimation for coefficient alpha*. Presented at the 70th Annual Meeting of the Psychometric Society, Tilburg, The Netherlands.

Coffman, D. L., & MacCallum, R. C. (2003, August). *Converting path analysis models into latent variable models using parcels*. Poster presented at the 111th Annual Convention of the American Psychological Association, Toronto, Canada.

Coffman, D. L., & Reifsteck, J. B. (2001, April). *Psychometric properties of the Students' Life Satisfaction Scale*. Poster presented at the 71st Annual Meeting of the Eastern Psychological Association, Washington, D.C.

Coffman, D. L., & Gilligan, T.D. (2000, April). *The relationship of social support, self-efficacy, and stress with life satisfaction among first year college students*. Poster presented at the 70th Annual Meeting of the Eastern Psychological Association, Baltimore, MD.

Coffman, D. L. (1999, April). *The relationship of stress, social support, and self-efficacy with life satisfaction among freshman college students*. Poster presented at the 13th Annual National Conference of Undergraduate Research, Rochester, NY.

Kitsantas, A., **Coffman, D. L.**, Gallipoli, N., Rice, S., & Valaitis, J. (1998, August). *The effect of self-regulated strategies and self-efficacy perceptions on weight management*. Presented at the 12th Conference of the European Health Psychology Society, Vienna, Austria.

INVITED LECTURES

Mediation Analysis. Invited guest lecture for advanced undergraduate course in physical activity interventions. The Pennsylvania State University, University Park, PA. Mar. 2008

Residual Diagnostics and Individual Fit Indices for Evaluating Latent Growth Curve Models. Arizona State University, Tempe, AZ. Mar. 2007

Individual Fit Indices for Evaluating Growth Curve Models. James Madison University, Harrisonburg, VA. April 2006

Using Parcels in Structural Equation Models. Invited guest lecture for graduate course in structural equation modeling. The Pennsylvania State University, University Park, PA. Feb. 2006

Sample Size and Power Estimation. Invited guest lecture for graduate research methods course. University of North Carolina, Chapel Hill, NC Nov. 2004, Nov. 2005

TEACHING EXPERIENCE

Instructor Spring 2008
The Pennsylvania State University, University Park, PA –
Instructor for advanced graduate seminar entitled Mediation Analysis in the Social Sciences.

Teaching Fellow Aug. 2004 to June 2005
The University of North Carolina, Chapel Hill, NC - Jan. 2004 to May 2004
Primary instructor for Undergraduate Psychological Statistics course (4 times).

Planned and conducted lectures. Created syllabus, homework assignments, and exams.
Supervised teaching assistants.

Teaching Assistant

Aug. 2004 to Dec. 2004

The University of North Carolina, Chapel Hill, NC -
Teaching assistant for graduate course in Factor Analysis (1 time).
Proctored and evaluated exams. Met with students individually.

Teaching Assistant

Jan. 2003 to May 2003, July 2003

The University of North Carolina, Chapel Hill, NC –
Undergraduate Psychological Statistics course (2 times)
Provided instruction on statistical procedures in MS Excel.

Teaching Assistant

Oct. 2002 to Dec. 2002

The Ohio State University, Columbus, OH –
Undergraduate Psychological Statistics course (1 time)
Provided instruction on SPSS. Planned and conducted laboratory lectures.

Teaching Assistant

May 2000 to July 2001

James Madison University, Harrisonburg, VA –
Undergraduate Psychological Statistics course (1 time)
Undergraduate Experimental Psychology course (4 times)
Graduate Measurement Theory course (1 time)
Graduate Research and Inferential Statistics course (1 time)
Evaluated homework assignments and research reports.

RESEARCH EXPERIENCE

Research Assistant

May 2003 to Dec. 2003

The University of North Carolina, Chapel Hill NC –
Data management.

Research Assistant

Jan. 2003 to June 2003

The University of North Carolina, Chapel Hill NC –
Worked on a grant funded by the North Carolina Department of Public Instruction to support Item Response Theory scoring of end-of-grade testing in the NC Public School system.

Research Assistant

Oct. 2001 to Oct. 2002

The Ohio State University, Columbus OH –
Data analysis. Determined the analyses to be conducted and summarized results in tables and plots.

Graduate Assistant

Aug. 1999 to May 2000

James Madison University, Harrisonburg VA –
Center for Assessment and Research Studies
Scanned student assessment test response sheets. Transferred data using WS_FTP. Created presentations in MS PowerPoint. Created bibliographic databases using EndNote. Attended standard-setting workshops. Administered computerized tests.

STATISTICAL CONSULTING

Statistical Consultant

Aug. 2004 to April 2005

The University of North Carolina, Chapel Hill NC –
Statistical consultant for the Department of Psychology.

Aug. 2005 to Dec. 2005

Statistical Consultant

Oct. to Dec. 2005

Duke University, Durham NC –
Statistical consultant for the Center for Child and Family Policy.

Statistical Consultant

Nov. to Dec. 2005

Duke University, Durham NC –
Statistical consultant for Fuqua Business School.

COMPUTER SKILLS

| | | | | |
|----------------|-------|--------|----------|-----------|
| MATLAB | SPlus | LISREL | CEFA | LaTeX |
| Mathematica | SPSS | Mplus | MLwiN | SIGMAPLOT |
| SAS/IML | R | AMOS | TESTFACT | G*power |
| Fortran | SAS | RAMONA | MULTILOG | SYSTAT |
| Optimal Design | Mx | | | |

PROFESSIONAL AFFILIATIONS

American Psychological Association
Society for Prevention Research
Psychometric Society

SERVICE

Reviewer

Society for Prevention Research conference proposals

2008

The University of North Carolina Chapel Hill

Jan. 2004 to May 2004

Student member of the local planning committee for conference: Factor Analysis at 100.

Reviewer

Society of Multivariate Experimental Psychology student conference proposals

2003 & 2004

Virginia Junior Science and Humanities Symposium Judge

Mar. 2001

James Madison University

Aug. 2000 to May 2001

Student member of the Master of Arts in Psychological Sciences Program Committee.

Ad hoc reviewer for:

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|---|------------|
| <i>Psychological Methods</i> | 2006, 2007 |
| <i>Multivariate Behavioral Research</i> | 2006 |
| <i>Structural Equation Modeling</i> | 2006, 2008 |
| <i>Statistica Neerlandica</i> | 2007, 2008 |
| <i>Developmental Psychology</i> | 2007, 2008 |
| <i>Methodology</i> | 2008 |
| <i>Prevention Science</i> | 2008 |