Dakota W. Cintron

CONTACT INFORMATION

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RESEARCH INTERESTS

Psychometrics, Latent Variable Modeling, and Quantitative Research Methodology

EDUCATION

University of Connecticut, Storrs, CT

Ph.D. Student, Research Methodology, Measurement, and Evaluation, May, 2020 (expected)

- Dissertation: "Statistical Estimation of Large Ordinal Factor Analysis Models"
- Advisor: Dr. D. Betsy McCoach

Teachers College, New York, New York

Ed.M., Measurement and Evaluation, May, 2016

M.S., Applied Statistics, May, 2016

- Masters Thesis: "Diagnostic Models of Science Attribute Mastery Using an International Sample From the 2007 TIMSS"
- Advisor: Dr. Young-Sun Lee

Rutgers University, New Brunswick, New Jersey

B.S., Economics & Public Health, May, 2014

- Honors Thesis: "Does Iron Supplementation Improve Early Childhood Cognitive Development? A Meta-Analysis"
- Advisor: Dr. W. Steven Barnett

EXTERNAL FUNDING & FELLOWSHIPS

Harold Gulliksen Psychometric Research Fellowship: $20,000

- The Gulliksen Psychometric Research Fellowship is intended to increase the number of well-trained scientists in educational assessment, psychometrics, and statistics. The program is facilitated by the Educational Testing Service.

Health Policy Research Scholars (HPRS): $120,000.

- HPRS is a national leadership development program for doctoral students in any academic discipline who want to apply their research to help build healthier and more equitable communities

Dean's Doctoral Scholars (DDS): Graduate Assistantship + Tuition Remission.

- The DDS Program at UConn's Neag School of Education provides full tuition for four years plus a stipend to promising Ph.D. candidates.

PUBLICATIONS

Hines, E.M., Hines, M. R., Moore III, J.L., Steen, S., Singleton, II, P., Cintron, D., Traverso, K,Golden, M. N., Wathen, B., & Henderson, J.A. (in press). Preparing African American males for college: A group counseling approach. *Journal for Specialist in Group Work.*

Briesch, A. M., Cintron, D. W., Dineen, J. N., Chafouleas, S. M., McCoach, D. B., & Auerbach, E. (in press). Comparing stakeholders knowledge and beliefs about supporting students social, emotional, and behavioral health in schools. *School Mental Health.*

Briesch, A. M., Chafouleas, S. M., Cintron, D.W., & McCoach, D. B. (2019). Factorial Invariance of the Usage Rating Profile for Supporting Students Behavioral Needs (URP-NEEDS). *School Psychology Quarterly.*

Kostis, J. B., Cintron, D., Cabrera, J., Sedjro, J. E., & Cosgrove, N. M. (2014). Acute Myocardial Infarction Hospital Performance Reports and Recurrence of Myocardial Infarction After Discharge in a Statewide Study of 64 Hospitals. *Journal of the American College of Cardiology*, 12(63), A1427.

Manuscripts Under Review

Chafouleas, S. M., Cintron, D.W., McCoach, D. B., Briesch, A. M., & Dineen, J.N (under review). Exploring Predictors of Approaches to Identifying and Supporting Student Social, Emotional, and Behavioral Functioning. *Journal of Research on Educational Effectiveness*

Cintron, D.W. & Montrosse-Moorhead, B. (under review). Integrating Big Data into Evaluation: R Code for Latent Dirichlet Allocation Topic Modeling of Qualitative Textual Data. *American Journal of Evaluation.*

Cintron. D.W., Hines, E.M., Singleton II, P., & Golden, M. (under review). Improving Retention and GPAs of Black Males at PWI: A LLC Approach. *Journal of African American Males in Education.*

McCoach, D.B. & Cintron, D.W. (under review). Introduction to Multilevel and Structural Equation Modeling. *Sage Quantitative Research Kit.*

Cintron, D.W., McCoach, D.B., Loken, E. & Bellara, A. (under review). Right Model, Wrong People: Correct Class Assignment in Latent Class Analysis. *Psychological Methods.*

Manuscripts In Preparation

Cintron, D.W. (in preparation). On the Comparative Performance of Iterative, Variational and Stochastic Estimation Methods in Latent Class Analysis.

Cintron, D.W. (in preparation). Methods for Measuring Speededness: Chronology, Classification, and Ensuring Research Development.

Conference Presentations

Cintron, D.W., Xiang, L., & He, Q. (2020, April). A Latent Dirichlet Allocation Model of Action Patterns. *National Council on Measurement in Education.* San Francisco, CA.

Reinka, M. A., Cintron, D., Quinn, M. A. (2020, February). Weight stigma online: A sentiment analysis approach. Talk to be given as part of a symposium entitled: Capturing Stigma: Novel Approaches. *21st Annual Convention for the Society for Personality and Social Psychology.* New Orleans, LA.

Cintron, D.W. (2019, October). On the Comparative Performance of Iterative, Variational and Stochastic Estimation Methods in Latent Class Analysis. *Northeastern Educational Research Association Conference*, Trumbull, CT.

Cintron, D.W. & McCoach, D.B. (2019, May). Data Science as Computational Social Science. *New England Statistical Society*, Hartford, CT.

McCoach, D.B. & Cintron, D.W. (2019, May). Data Science Versus Statistics: What Do Students Need to Know? *New England Statistical Society*, Hartford, CT.

McCoach, D.B. & Kearns, D. & Cintron, D.W. (2019, May). Big Social Science Data. *New England Statistical Society*, Hartford, CT.

Cintron, D.W. & McCoach, D.B. (2019, April). Right Model, Wrong People: Correct Class Assignment in Latent Class Assignment. *American Educational Research Association Conference*, Toronto, Canada.

Cintron, D.W., Hines, E.M., & Singleton II, P. (2019, April). Improving Retention and Grade Point Averages of Black Males: A Living and Learning Community Approach. *American Educational Research Association Conference*, Toronto, Canada.

Cintron, D.W. & Montrosse-Moorhead, B.. (2018, October). How do we know big data techniques are suitable to use in evaluation?: An empirical exploration. *American Evaluation Association*, Cleveland, OH.

Cintron, D.W. & Lee, Y.S. (2018, April). Diagnostic Models of Science Attribute Mastery: An International Multi-Group Study. *American Educational Research Association Conference*, New York, NY.

Cintron, D.W., Montrosse-Moorhead, B. & Finch, W.H. (2018, April). Proof of Concept: Topic Modeling as a Method for Focusing an Evaluation Design. *American Educational Research Association Conference*, New York, NY.

Cintron, D.W. (2017, October). The Academic Advisor Effectiveness Instrument. *Northeastern Educational Research Association Conference*, Trumbull, CT.

Hines, E.M., Cintron, D.W., & Singleton II, P. (2017, October). ScHOLA2RS House: Improving Retention and Graduation Rates of Black Males through a Living and Learning Community. *6th Annual International Colloquium on Black Males in Education*, Toronto, Canada

Cintron, D.W. & Steven Barnett, W. (2014, April). Does Iron Supplementation Improve Early Childhood Cognitive Development? A Meta-Analysis. *Aresty Undergraduate Research Symposium*, New Brunswick, NJ.

Cintron, D.W., Cabrera, J., Sedjro, J., Cosgrove, N. M., & Kostis, J.B (2013, April). Are Hospital Health Performance Reports Associated with Clinical Outcomes After Discharge in a Statewide Study of 72 Hospitals? *Aresty Undergraduate Research Symposium*, New Brunswick, NJ.

Miller, J.E., Cintron, D.W., Nugent, C. & Russell, L.B. (2012, June). Do Medical Homes Reduce Time Burden on Families of Children with Special Health Care Needs? *AcademyHealth Annual Research Meeting*, Orlando, Florida.

Miller, J.E., Cintron, D.W., Nugent, C. & Russell, L.B. (2012, April). Do Medical Homes Reduce Time Burden on Families of Children with Special Health Care Needs? *Aresty Undergraduate Research Symposium*, New Brunswick, New Jersey.

Miller, J.E., Cintron, D.W., Nugent, C. & Russell, L.B. (2012, April). Do Medical Homes Reduce Time Burden on Families of Children with Special Health Care Needs? *New England Science Symposium*, Cambridge, Massachusetts.

Invited Sessions

Cintron, D. W. (2019, May). Data Science: Computational Social Science? Chair of invited session at the New England Statistical Society Annual Conference, Hartford, CT.

Professional Trainings

New England Statistical Society (2019, May) *Intermediate Machine Learning: Key Concepts and Techniques*. Hartford, CT.

National Council on Measurement in Education (2019, April). *Bayesian Networks in Educational Assessment*. Toronto, Canada.

Scott Long Workshop (2018, January). *Reproducible Results and the Workflow of Data Analysis.* University of Connecticut, Storrs, CT.

Muthén & Muthén (2017, August). *Regression and Mediation Analysis.* John Hopkins University, Baltimore, MD.

Muthén & Muthén (2017, Augst). *Dynamic Structural Equation Modeling.* John Hopkins University, Baltimore, MD.

Leibniz Institute for Educational Trajectories (2017, August). *The German Educational Panel Study.* Columbia University, New York, NY.

American Psychological Association Advanced Training Institute.(2017, May). *Longitudinal Structural Equation Modeling.* Arizona State University, Tempe, AZ.

Modern Modeling Methods Conference (2017, May). *Model Implied Instrumental Variables using MIIVsem.* University of Connecticut, Storrs, CT.

Modern Modeling Methods Conference (2017, May). *Multiple Imputation for Multilevel Data.* University of Connecticut, Storrs, CT.

Modern Modeling Methods Conference (2017, May). *OpenMx XSEM with Applications to Dynamical Systems Analysis.* University of Connecticut, Storrs, CT.

National Council on Measurement in Education (2017, April). *Vertical Scaling Methodologies, Applications, and Research.* San Antonio, Texas.

National Council on Measurement in Education (2017, April). *Bayesian Estimation of Item Response Theory Model Parameters Using OpenBUGS and Stan.* San Antonio, Texas.

Relevant Graduate Coursework

Item Response Theory & Measurement
Psychological Measurement (Dr. Lawrence DeCarlo)
Intermediate Measurement (Dr. Young-Sun Lee)
Item Response Theory with Applications (Dr. Young-Sun Lee)
Item Response Theory (Dr. Jane Rogers)
Advanced Topics in Item Response Theory (Dr. Jane Rogers)
Measurement Theory & Applications (Dr. Eric Loken)

Longitudinal & Structural Equation Modeling
Latent Structure Analysis (Dr. Lawrence DeCarlo)
Multilevel Longitudinal Data Analysis (Dr. Lawrence DeCarlo)
Longitudinal Methods (Dr. Noel Card)
Hierarchical Linear Modeling (Dr. Eric Loken)
Advanced Modeling Using Latent Variable Techniques (Dr. Betsy McCoach)
Extensions in Multilevel and Structural Equation Modeling (Dr. Betsy McCoach)
Structural Equation Modeling (Dr. Betsy McCoach)

Other Statistical
Computational Statistics (Dr. Bryan Keller)
Statistical Inference (Dr. Bryan Keller)
Multidimensional Scaling & Clustering (Dr. James Corter)
Multivariate Analysis (Dr. Matthew Johnson)
Bayesian Analysis for Education and the Social Sciences (Dr. Hariharan Swaminathan)
Multivariate Analysis in Education (Dr. Hariharan Swaminathan)

Professional Positions	Harold Gulliksen Fellow, Educational Testing Service (06/19 - Present) Teaching Assistant, University of Connecticut (09/18 - 05/19) Graduate Assistant, University of Connecticut (09/16 - 05/19) Intern, Educational Testing Service (05/18-07/18) Research Assistant, Teachers College (09/15 - 05/16) Resident Researcher, New Visions for Public Schools (09/14 - 09/15) Intern, Caribbean Exploratory Research Center (06/14 - 08/14) Research Assistant, National Institute for Early Education Research (05/13 - 06/14) Research Assistant, Cardiovascular Institute of NJ (09/12 - 05/13) Intern, Institute for Health, Health Care Policy and Aging Research (06/11 - 06/12)
Professional Memberships	American Educational Research Association American Evaluation Association American Psychological Association National Council on Measurement in Education Psychometric Society
Computer Skills	Programming Languages & Software: R, Mplus, FlexMIRT, BILOG-MG, Stata, Python, OpenBugs, HLM, SPSS, SAS, SQL, MATLAB, MIM, HUGIN, Infer.net markdown, DOT, GraphViz, Git, XML, JSON, CSS Applications: LaTeX, Geographic Information Systems (GIS), Optimal Design, GPOWER, Github
References	Dr. D. Betsy McCoach 860-486-0183 betsy.mccoach@uconn.edu Dr. Hariharan Swaminathan 860-486-0200 hariharan.swaminathan@uconn.edu Dr. Eric Loken 860-486-6125 eric.loken@uconn.edu