

DAKOTA W. CINTRON

Mission Hall | University of California, San Francisco
cintrond.github.io | dakota.cintron@ucsf.edu

EDUCATION

University of Connecticut

Ph.D. in Educational Psychology – Research Methods, Measurement, and Evaluation

August 2020

Thesis: *Statistical Estimation of Large Ordinal Factor Analysis Models*

Advisor: D. Betsy McCoach

Teachers College

Ed.M. in Measurement and Evaluation

May 2016

M.S. in Applied Statistics

May 2016

Rutgers University

B.S. in Economics & Public Health

May 2014

ACADEMIC APPOINTMENTS

Postdoctoral Scholar, University of California, San Francisco

September 2020 - Present

Advisor: Dr. M. Maria Glymour

Research on *Causal Inference, Health Disparities and Inequalities*

Teaching Assistant, University of Connecticut

January 2019 - May 2019

Course: *Methods and Techniques of Educational Research*

Teaching Assistant, University of Connecticut

September 2018 - December 2018

Course: *Doctoral Seminar in Data Science*

PROFESSIONAL AND RESEARCH APPOINTMENTS

Intern, Kaplan Test Prep

June 2020 - July 2020

Harold Gulliksen Psychometric Fellow, Educational Testing Service

June 2019 - May 2020

Graduate Assistant, University of Connecticut

September 2016 - May 2019

Intern, Educational Testing Service

June 2018 - July 2018

Research Assistant, Teachers College

September 2015 - May 2016

Resident Researcher, New Visions for Public Schools

September 2014 - September 2015

Intern, Caribbean Exploratory Research Center

June 2014 - August 2014

Research Assistant, National Institute for Early Education Research

May 2013 - June 2014

Research Assistant, Cardiovascular Institute of New Jersey

September 2012 - May 2013

Intern, Institute for Health, Health Care Policy and Aging Research

June 2011 - July 2012

AWARDS & HONORS

Chan-Zuckerberg National Council on Measurement in Education Fellowship: (\$3,095)

2020

Educational Testing Service Harold Gulliksen Psychometric Research Fellowship: (\$20,000)

2019 - 2020

Robert Wood Johnson Foundation Health Policy Research Scholar: (\$120,000)

2016 - 2020

University of Connecticut Dean's Doctoral Scholars: (Tuition Remission)

2016 - 2019

PUBLICATIONS

6. McCoach, D.B. & **Cintron, D. W.** (in press). *Introduction to Modern Modeling Methods*. SAGE.
5. **Cintron, D. W.**, Hines, E.M., Singleton II, P., & Golden, M. (2020). Improving retention and GPAs of Black males at PWI: A LLC approach. *Journal of African American Males in Education*, 11(1), 37-57.
4. Briesch, A. M., **Cintron, D. W.**, Dineen, J. N., Chafouleas, S. M., McCoach, D. B., & Auerbach, E. (2020). Comparing stakeholders knowledge and beliefs about supporting students social, emotional, and behavioral health in schools. *School Mental Health*, 12, 222-238. <https://doi.org/10.1007/s12310-019-09355-9>
3. Hines, E. M., Hines, M. R., Moore III, J. L., Steen, S., Singleton, P., **Cintron, D. W.**, ... & Henderson, J. (2020). Preparing African American males for college: A group counseling approach. *The Journal for Specialists in Group Work*, 45(2), 129-145. <https://doi.org/10.1080/01933922.2020.1740846>
2. 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*, 35(1), 51-60. <https://doi.org/10.1037/spq0000309>
1. Kostis, J. B., **Cintron, D. W.**, 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. [https://doi.org/10.1016/S0735-1097\(14\)61427-3](https://doi.org/10.1016/S0735-1097(14)61427-3)

SELECT MANUSCRIPTS UNDER REVIEW & IN PREPARATION

2. **Cintron, D. W.** & Montrosse-Moorhead, B. (revise and resubmit). Integrating big data into evaluation: R code for topic identification and modeling. *American Journal of Evaluation*.
1. **Cintron, D. W.**, McCoach, D.B., Loken, E. & Bellara, A. (under review). Right model, wrong people: Correct class assignment in latent class analysis.

CONFERENCE PRESENTATIONS

* Cancelled due to COVID-19

18. **Cintron, D. W.** (2020, June). An Evaluation of Statistical Estimation Procedures for Ordinal Factor Analysis Models. *Modern Modeling Methods*, Storrs, CT.*
17. **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.*
16. Chafouleas, S. M., **Cintron, D. W.**, McCoach, D., Briesch, A., Dineen, J. & Volk, D. (2020, April). A Mediation Model of Social, Emotional, and Behavioral Approaches and Outcomes in U.S. Public Schools. *American Educational Research Association Conference*, San Francisco, CA.*
15. **Cintron, D. W.** (2020, March). On the Relation of Latent Variable Models and Network Psychometrics. *Spring School on Mathematical Statistics*, Leipzig, Germany.*
14. Reinka, M. A., **Cintron, D. W.**, & 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.
13. **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.
12. **Cintron, D. W.** & McCoach, D.B. (2019, May). Data Science as Computational Social Science. *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.
11. **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.

10. **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.
9. **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.
8. **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.
7. **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.
6. **Cintron, D. W.** (2017, October). The Academic Advisor Effectiveness Instrument. *Northeastern Educational Research Association Conference*, Trumbull, CT.
5. 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
4. **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.
3. **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.
2. 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.
1. 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 TALKS

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

PARTICULAR SKILLS AND KNOWLEDGE

Programming Languages	CSS · DOT · HTML · infer.net · JSON · \LaTeX · Markdown · Matlab · Python · R · SQL · XML
Software	Amos · ArcGIS · BILOG-MG · BUGS/JAGS · flexMIRT · Git · GraphViz · HLM · HUGIN · LISREL · Mplus · OpenBugs · Optimal Design · Qualtrics · R · SAS · SPSS · STATA · Tableau
Modeling and Statistics	Bayesian Methods · Causal Inference · Classical Test Theory · Computational Statistics · Experimental Designs · Exploratory Data Analysis · Factor Analysis · Generalized Linear Modeling · Item Response Theory · Latent Growth Curve Modeling · Measurement · Monte Carlo Simulations · Multidimensional Scaling and Clustering · Multilevel Modeling · Multivariate Analysis and Statistics · Quasi-Experimental Designs · Structural Equation Modeling · Survival Analysis

PROFESSIONAL MEMBERSHIPS

American Educational Research Association
 Division D
 Hierarchical Linear Modeling SIG

Structural Equation Modeling SIG
National Council on Measurement in Education
Psychometric Society

REFERENCES

D. Betsy McCoach, Ph.D

Professor
Department of Educational Psychology
University of Connecticut

Eric Loken, Ph.D

Professor
Department of Educational Psychology
University of Connecticut

Hariharan Swaminathan, Ph.D

Professor
Department of Educational Psychology
University of Connecticut