

# DAKOTA W. CINTRON

Center for Integrative Developmental Science | Cornell University  
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## EDUCATION

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### University of Connecticut

Ph.D. in Educational Psychology – Research Methods, Measurement, and Evaluation August 2020

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

Committee: Drs. D. Betsy McCoach, Eric Loken, Hariharan Swaminathan, and Haim Bar

### Teachers College at Columbia University

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

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### Postdoctoral Associate

Center for Integrative Developmental Science, September 2022 - Present

Advisor: Dr. Anthony D. Ong

Research: *Longitudinal Data Analysis and Causal Inference*

### Postdoctoral Scholar

Methods Lab at the Evidence for Action National Program Office, September 2020 - August 2022

a grantmaking program from the Robert Wood Johnson Foundation

Advisor: Dr. M. Maria Glymour

Research: *Causal Inference, Health Disparities and Inequalities*

## AWARDS & HONORS

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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

Deans Doctoral Scholarship at the University of Connecticut: (Tuition Remission) 2016 - 2020

Gates Millennium Scholars Program: (Tuition Remission) 2009 - 2016

Horatio Alger Scholarship: (\$20,000) 2009-2014

## PUBLISHED BOOKS & BOOK CHAPTERS

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1. **Cintron, D. W.** (2022). *Bayesian networks*. International Encyclopedia of Education (4th edition).
2. McCoach, D.B. & **Cintron, D. W.** (2022). *Introduction to Modern Modeling Methods*. SAGE.
3. Carter, R. T., Pieterse, A. L., Muchow, C., Johnson, V.E., Galgay, C.E., & **Cintron, D. W.** (2020). Appendix A: Race-Based Traumatic Stress Symptom Scale Short Form (RBTSSS-SF). In Carter, R. T., & Pieterse, A. L. (Eds.) *Measuring the Effects of Racism* (pp. 233-246). Columbia University Press.

## PEER REVIEWED JOURNAL ARTICLES

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1. **Cintron, D. W.**, Gottlieb, L. M., Hagan, E., Tan, M. L., Vlahov, D., Glymour, M.M., & Matthay, E. C. (in press). A quantitative assessment of the frequency and magnitude of heterogeneous treatment effects in studies of the health effects of social policies. *SSM - Population Health*.

2. **Cintron, D. W.**, Glymour, M.M., Whitmer, R.A., Mungas, D., Gilsanz, P., Barnes, L.L., Calmasini, C., Eng, C.W., George, K.M., & Peterson, R. (in press). Evaluating interpersonal discrimination and depressive symptoms as partial mediators of the effects of education on cognition: Evidence from the Study of Healthy Aging in African Americans (STAR). *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*.
3. Ong, A.D., Liu, Z. & **Cintron, D. W.** (in press). Five challenges for hope and resilience research. *Current Opinion in Psychology*. <https://doi.org/10.1016/j.copsyc.2022.101538>
4. Chafouleas, S. M., **Cintron, D. W.**, McCoach, D. B., Briesch, A. M., Dineen, J. N., & Koriakin, T. A. (2022). Exploring factors associated with district approaches to identifying and supporting student social, emotional, and behavioral needs. *Leadership and Policy in Schools*, 1-19. <https://doi.org/10.1080/15700763.2022.2099904>
5. **Cintron, D. W.**, Loken, E., & McCoach, D. B. (2022). A cautionary note about having the right mixture model but classifying the wrong people. *Multivariate Behavioral Research*, 1-12. <https://doi.org/10.1080/00273171.2022.2082913>
6. **Cintron, D. W.**, Adler, N. E., Gottlieb, L. M., Hagan, E., Tan, M. L., Vlahov, D., ... & Matthay, E. C. (2022). Heterogeneous treatment effects in social policy studies: An assessment of contemporary articles in the health and social sciences. *Annals of Epidemiology*, 70, 79-88. <https://doi.org/10.1016/j.annepidem.2022.04.009>
7. Hines, E.M., Moore, III, J.L., **Cintron, D. W.**, Singleton, II, P., Golden, M.N., Fletcher Jr., E.C., Henderson, J.A., Slack, T., Moore, W.C., Ouimette, D.T., Reid Jr., M., & Ford, D.Y. (in press). A bridge to over troubled water: Designing and implementing a living and learning community to produce optimal outcomes for Black males. *Journal of College and University Student Housing*.
8. **Cintron, D. W.** & Montrosse-Moorhead, B. (2021). Integrating big data into evaluation: R code for topic identification and modeling. *American Journal of Evaluation*. <https://doi.org/10.1177/10982140211031640>
9. **Cintron, D. W.** (2021). *Methods for measuring speededness: Chronology, classification, and ensuing research and development*. Research Report No. RR-21-22. ETS. <https://doi.org/10.1002/ets2.12337>
10. Hines, E.M., Mayes, R.D., Hines, M.R., Henderson, J.A., Golden, M.N., Singleton II, P.S., **Cintron, D. W.**, Wathen, B., Wright, C.G., Vega, D., & Slack, T. (2021). "You are going to school:" Exploring the precollege experiences of first-year black males in higher education *Professional School Counseling*. <https://doi.org/10.1177/2156759X211040044>
11. Dineen, J. N., Chafouleas, S. M., Briesch, A. M., McCoach, D. B., Newton, S. D., & **Cintron, D. W.** (2021). Exploring social, emotional, and behavioral screening practices in U.S. public school districts. *American Educational Research Journal*. <https://doi.org/10.3102/00028312211000043>
12. **Cintron, D. W.**, Hines, E.M., Singleton II, P., & Golden, M. (2020). Improving the retention and GPAs of Black males at a primarily White institution: A living and learning community approach. *Journal of African American Males in Education*, 11(1), 37-57.
13. 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>
14. 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>
15. 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>

## SELECT MANUSCRIPTS UNDER REVIEW & IN PREPARATION

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1. **Cintron, D. W.** & Ong, A.D. (under review). Trajectories of affective well-being and survival in middle-aged and older adults.
2. **Cintron, D. W.**, Matthay, E.C., & McCoach, D.B. (under review). Testing for Intersectional Measurement Invariance with the Alignment Method.

3. Hill-Jarrett, T.G., **Cintron, D. W.**, Sims, K., Mayeda, E.R., Whitmer, R.A., Gilsanz, P., Mungas, D. & Gilmour, M.M. (under review). Evaluating the Measurement Invariance of the Everyday Discrimination Scale Among Older Black Men and Women.
4. **Cintron, D. W.** (in preparation). A comparative evaluation of conventional and modern estimation approaches for large ordinal factor analysis models.
5. **Cintron, D. W.**, Tan, M.L., Adler, N., Gottlieb, L.M., Vlahov, D., Matthay, E.C., Glymour, M.M., Montrosse-Moorhead, B.M., Salsman, J., Hagan, E., & Solano-Flores, G. (in preparation). Diversity, equity, and inclusion in test design: Using the matrix of evidence for validity argumentation in the design of instruments.

## CONFERENCE PRESENTATIONS

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\* Cancelled due to COVID-19

1. **Cintron, D. W.** & Ong, A.D. (2023, November). Advancing the study of intersectionality and flourishing through natural language use. *American Psychosomatic Society*, San Juan, PR.
2. **Cintron, D. W.** & Ong, A.D. (2022, November). Advancing the study of intersectionality and flourishing through natural language use. *Global Scientific Conference on Human Flourishing*, Virtual.
3. **Cintron, D. W.**, Matthay, E.C., Glymour, M.M., Gottlieb, L.M., Adler, N., Vlahov, D., Hagan, E. & Tan, M.L. (2022, June). Heterogeneous treatment effects in social policy studies: A quantitative review. *Society for Epidemiological Research*, Chicago, IL.
4. **Cintron, D. W.**, Glymour, M.M., Whitmer, R.A., Mungas, D., Gilsanz, P., Barnes, L.L., Calmasini, C., Eng, C.W., George, K.M., & Peterson, R. (2021, July). Does discrimination mediate the association between education and later-life cognitive outcomes in a cohort of Black Americans? An example of parametric g-estimation with latent variables in the STAR study. *Alzheimer's Association International Conference*, Denver, CO.
5. **Cintron, D. W.**, Matthay, E.C., Glymour, M.M., Gottlieb, L.M., Adler, N., Vlahov, D., Hagan, E. & Tan, M.L. (2021, June). Does research on social policies typically evaluate heterogeneous treatment effects? A quantitative assessment of a contemporary sample of articles in epidemiology, medicine, and economics. *Society for Epidemiological Research*, Virtual.
6. **Cintron, D. W.** & Deng, N. (2021, June). Student growth percentiles and latent change scores with two time point data. *National Council on Measurement in Education*, Virtual.
7. **Cintron, D. W.** (2020, June). Nonparametric estimation of latent class models within a Hilbert space. *International Meeting of the Psychometric Society*, Virtual.
8. **Cintron, D. W.** (2020, June). An Evaluation of Statistical Estimation Procedures for Ordinal Factor Analysis Models. *Modern Modeling Methods*, Storrs, CT.\*
9. **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.\*
10. 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.\*
11. 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.
12. **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.
13. **Cintron, D. W.** & McCoach, D.B. (2019, May). Data Science as Computational Social Science. *New England Statistical Society*, Hartford, CT.
14. McCoach, D.B. & Kearns, D. & **Cintron, D. W.** (2019, May). Big Social Science Data. *New England Statistical Society*, Hartford, CT.

15. **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.
16. **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.
17. **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.
18. **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.
19. **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.
20. **Cintron, D. W.** (2017, October). The Academic Advisor Effectiveness Instrument. *Northeastern Educational Research Association Conference*, Trumbull, CT.
21. 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
22. **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.
23. **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.
24. 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.
25. 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

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1. **Cintron, D. W.** (2023, February). Topic modeling in evaluation. Seminar in evaluation at the *University of Connecticut*, Storrs, Connecticut.
2. **Cintron, D. W.** (2022, September). Advancing fairness and equity in measurement: An intersectional approach to measurement invariance testing. Seminar for the *Quantitative Brown Bag Series* at the *Ohio State University*, Columbus, Ohio.
3. **Cintron, D. W.** (2022, March). A latent Dirichlet allocation model of action patterns. Seminar for the computational psychometrics group at the *Institute of Computer Science of the Czech Academy of Sciences* and *Center for Educational Measurement and Psychometrics*, Prague, Czech Republic.
4. **Cintron, D. W.** (2021, October). G-estimation with measurement error correction. Workshop presenter at the *From Data to Causes Workshop*, Berlin, Germany.
5. **Cintron, D. W.** (2020, March). On the relation of latent variable models and network psychometrics. Participant in the *Max Planck Institute for Mathematics in the Sciences Spring School on Mathematical Statistics*. Leipzig Germany.\*
6. **Cintron, D. W.** (2019, May). Data Science: Computational Social Science? Chair of invited session at the *New England Statistical Society Annual Conference*, Hartford, CT.

## INFORMAL WRITING

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1. Chernitskiy, S & **Cintron, D. W.** (2022, July). What We've Learned About Approaches to Community Engaged Research *Evidence for Action*
2. **Cintron, D. W.** (2022, June). Measuring the Quantity and Quality of Community Engagement: Learnings from an Interview with Dr. Melody Goodman *Evidence for Action*
3. **Cintron, D. W.** (2022, May). Community-Based Participatory Research: Learnings from an Interview with Ms. Harriet Yepa-Waquie and Dr. Nina Wallerstein *Evidence for Action*
4. **Cintron, D. W.** & Chernitskiy, S. (2022, April). Community Partnered Participatory Research: Learnings from an Interview with Ms. Andrea Jones and Dr. Kenneth Wells. *Evidence for Action*
5. **Cintron, D. W.** (2022, March). Building High-Quality Evidence Through Community-Engaged Research. *Evidence for Action*.
6. **Cintron, D. W.**, Glymour, M.M., & Matthay, E.C. (2021, November). Unveiling causal mechanisms through mediation analysis. *Evidence for Action*.
7. **Cintron, D. W.**, Glymour, M.M., & Matthay, E.C. (2021, October). Preregistration: Improving the transparency, reproducibility, and impact of research findings. *Evidence for Action*.
8. **Cintron, D. W.**, Matthay, E.C., & Glymour, M.M. (2021, July). An introduction to a roadmap for causal inference. *Evidence for Action*.
9. **Cintron, D. W.** & Hagan, E. (2021, April). Checking our bias in "unbiased" research instruments: applying a diversity, equity and inclusion lens to instrument design. *Evidence for Action*.
10. **Cintron, D. W.**, Glymour, M.M., & Matthay, E.C. (2021, February). A brief discussion on time-varying confounding in the evaluation of programs, practices, or policies. *Evidence for Action*.
11. **Cintron, D. W.** (2020, November). Connecting with study participants during COVID: An interview with Nadia Diamond-Smith on Facebook recruitment. *Evidence for Action*.
12. **Cintron, D. W.** (2020, October). Highlighting the unequal burden of COVID-19: Informing possible pathways for intervention. *Evidence for Action*.

## TEACHING APPOINTMENTS

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<b>Teaching Assistant</b> , University of Connecticut Course: <i>Methods and Techniques of Educational Research</i>	January 2019 - May 2019
<b>Teaching Assistant</b> , University of Connecticut Course: <i>Doctoral Seminar in Data Science</i>	September 2018 - December 2018

## PROFESSIONAL MEMBERSHIPS

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1. American Educational Research Association (2016 - Present)
  - Division D Equity and Inclusion Committee Member (2021 - Present)
2. National Council on Measurement in Education (2016 - Present)
  - Graduate Student Issues Committee Member (2017-2019)
3. Psychometric Society (2016 - Present)
4. Society for Epidemiological Research (2020 - Present)

## PROFESSIONAL AND RESEARCH APPOINTMENTS

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<b>Intern</b> , Kaplan Test Prep	June 2020 - July 2020
<b>Graduate Assistant</b> , University of Connecticut	September 2016 - May 2019
<b>Intern</b> , Educational Testing Service	June 2018 - July 2018
<b>Research Assistant</b> , Teachers College	September 2015 - May 2016
<b>Resident Researcher</b> , 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

## REFERENCES

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**D. Betsy McCoach, Ph.D**

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