

Michael D. Broda

Associate Professor of Research, Assessment, and Evaluation

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Education

The College of Wooster, B.A. in History, 2006

Michigan State University, Ph.D. in Educational Policy and Curriculum, Instruction, and Teacher Education (Dual Degree), 2015

Academic Employment

Virginia Commonwealth University, School of Education

Associate Professor (with tenure), Department of Foundations of Education, 2021–present

Assistant Professor, Department of Foundations of Education, 2015–2021

Michigan State University, College of Education

University Distinguished Fellow, 2009–2014

Graduate Research Analyst, Office of the Hannah Chair, 2011–2015

Areas of Special Interest

Quantitative research methods; Machine Learning; Multilevel modeling; Social network analysis; Latent variable modeling; Structural equation modeling; Longitudinal data analysis; Classroom-based interventions; STEM learning

Publications

Peer-Reviewed Journal Articles

- [71] Broda, M.D., Wang, T.-W., Hui, J., Ross, E., McGinnis, H., Chan, D.M., Tomlinson, C.A., & Luce, C. (2026, in press). Exploring Relationships Between College Students' Social Networks, Social Support, and Mental Health during the Covid-19 Pandemic. *Public Library of Science: Mental Health*.
- [70] Dinora, P., Prohn, S., Broda, M.D., Bogenschutz, M., Lineberry, S., & West, A. (2025, accepted). Empowering Voices: The Impact of Choice-Making on Voting Opportunity Among People with Intellectual and Developmental Disabilities. *Inclusion*.
- [69] Sutherland, K. S., Conroy, M. A., Broda, M., McLeod, B. D., Granger, K. L., Reichel, M., & Washington, J. (2025, in press). Elementary Teacher Outcomes Associated with Participation in a BEST in CLASS-Elementary Randomized Controlled Trial. *School Mental Health*. <https://doi.org/10.1007/s12310-025-09842-2>
- [68] Bogenschutz, M., Broda, M.D., Lineberry, S., Dinora, P., Prohn, S., & West, A. (2026). Applying machine learning to understand factors predicting pharmacotherapy for mental health support among adults with intellectual and developmental disabilities. *Social Work in Mental Health*, 24(2), 117-130. <https://doi.org/10.1080/15332985.2025.2545892>

- [67] Granger, K., Chow, J., Vogel, K.F., Vieten, E., & **Broda, M.D.**. Classroom Seating Placements of Students With or At Risk for Emotional and Behavioral Disorders. (2025, in press). *Journal of Emotional and Behavioral Disorders*. <https://doi.org/10.1177/01987429251349115>
- [66] Prohn, S.M., Taylor, M., Dinora, P., Bogenschutz, M., **Broda, M.D.**, Lineberry, S., & West, A. (2025, in press). What Aspects of Privacy are Reported and Whose Experiences are Not Represented? *Intellectual and Developmental Disabilities*. <https://doi.org/10.1080/19349491.2025.2583727>
- [65] **Broda, M.D.**, Granger, K.L., Chow, J.C., Sayers, R., Washington-Nortey, M., Dear, E., Sutherland, K.S., & Conroy, M.A. (2025, in press). Profiles of Practice Delivery, Relationships, and their Longitudinal Associations with Challenging Behavior and Engagement for Students with EBD. *Teacher Education and Special Education*. <https://doi.org/10.1177/08884064251356658>
- [64] Johnson, T., Flores, L., Pandelidis, A., **Broda, M.D.**, & Forrest, R. (2025, in press). Night Vision: A New Blueprint for Bedside Ultrasound Training in Medical Residency. *BioMed Central Medical Education*. <https://doi.org/10.1186/s12909-025-07531-x>
- [63] Granger, K., Chow, J., **Broda, M.D.**, & Reichel, M. (2025, in press). Friendship Reciprocity, Stability, and Quality of Students with or at Risk for Emotional and Behavioral Disorders. *Behavioral Disorders*. <https://doi.org/10.1177/01987429251349115>
- [62] Lineberry, S., **Broda, M.D.**, Dinora, P., Bogenschutz, M., Prohn, S., & West, A. (2025, in press). Evaluating Measurement Invariance Over Time of a Personal Opportunities Scale for People with IDD. *Intellectual and Developmental Disabilities*. <https://doi.org/10.1352/1934-9556-63.4.315>
- [61] **Broda, M.D.**, Conley, A.H., Clarke, P.B., Ohrt, J.A., & Joy, J. (2024, in press). Examining the Dimensionality, Internal Consistency, and Invariance of the Depression, Anxiety, and Stress Scale–21 (DASS-21) Across Age, Race, Ethnicity, and Caretaking Status. *Psychological Reports*. <https://doi.org/10.1177/00332941241313105>
- [60] Bogenschutz, M., **Broda, M.D.**, Lineberry, S., Dinora, P., Prohn, S., & West, A. (2024, in press). Examining use of pharmacotherapy for behavioral support among Americans with IDD using machine learning. *Journal of Mental Health Research in Intellectual Disabilities*. <https://doi.org/10.1080/19315864.2024.2416696>
- [59] Granger, K.G., Washington-Nortey, M., Chow, J., **Broda, M.D.**, Sutherland, K., & Conroy, M. (2024, in press). Child Gender and Challenging Behavior Influences Early Childhood Teachers' Use of Behavior Specific Praise. *Psychology in the Schools*. <https://doi.org/10.1002/pits.23306>
- [58] McLeod, B.D., Sutherland, K., **Broda, M.D.**, Granger, K.L., Hollins, N., Frey, A.J., Markowicz, K.A., & Dear, E. (2024, in press). Initial Development of the Child Responsiveness Scale for Early Childhood Settings. *Journal of Emotional and Behavioral Disorders*. <https://doi.org/10.1177/10634266241271392>
- [57] Lineberry, S., Bogenschutz, M., & **Broda, M.D.**. (2024, in press). Proxy-Responses in Research on COVID-19 Among People with Intellectual and Developmental Disabilities. *American Journal on Intellectual and Developmental Disabilities*, 129(5), 346-361. <https://doi.org/10.1352/1944-7558-129.5.346>
- [56] Inge, K., Wehman, P., Avellone, L., **Broda, M.**, & McDonough, J. (2024, in press). The Impact of Customized Employment on the Competitive Integrated Employment Outcomes of Transition Age Youth with Intellectual and Developmental Disabilities: A Random Control Trial Study. *Work*, 77(3), 721-729. <https://doi.org/10.3233/WOR-246003>
- [55] **Broda, M.D.**, Bogenschutz, M., Dinora, P., Prohn, S., Lineberry, S., & West, A. (2024, in press). Understanding COVID-19 infection among people with intellectual and developmental disabilities using machine learning. *Disability and Health Journal*, 17(3). <https://doi.org/10.1016/j.dhjo.2024.101607>

- [54] Zhang, F., Bae, C., **Broda, M.D.**, & Koenka, A.C. (2024, in press). Motivation and Opportunities-to-Learn in Science as Predictors of Student Science Performance. *Journal of Experimental Education*. <https://doi.org/10.1080/00220973.2024.2306404>
- [53] Dear, E., McLeod, B.D., Peterson N.M., **Broda, M.D.**, Dopp, A., Lyon, A., & Sutherland, K. (2023, in press). A Case Study of Pragmatic Measure Development of the Treatment Integrity for Elementary Settings Self Report Measure for Teachers. *Implementation Research and Practice*, 5. <https://doi.org/10.1177/26334895231220262>
- [52] Zhang, F., Bae, C., **Broda, M.D.**, & Koenka, A.C. (2023, in press). Factor structure of student science learning motivation: Evidence from TIMSS data. *Sustainability*, 15(17). <https://doi.org/10.3390/su151713230>
- [51] Comring, A., **Broda, M.**, Lucas, B.L., Becker, J., & Bae, C.L. (2023, in press). An inclusive school for computer science: Early impact on outcomes and illustration of the use of propensity score matching. *Studies in Educational Evaluation*. <https://doi.org/10.1016/j.stueduc.2023.101293>
- [50] Taylor, J., Thoma, C., Scott, L., **Broda, M.**, Wehman, P., & Whittenburg, H. (2025). Inclusive Educational and Vocational Predictors of Postsecondary Education for Youth with Intellectual and Developmental Disabilities. *International Journal of Inclusive Education*, 29(6), 845-862. <https://doi.org/10.1080/13603116.2023.2225503>
- [49] **Broda, M.**, Ross, E., Sorhagen, N., & Ekholm, E. (2023). Exploring Control-Value motivational profiles of mathematics anxiety, self-concept, and interest in adolescents. *Frontiers in Psychology: Educational Psychology*. <https://doi.org/10.3389/fpsyg.2023.1140924>
- [48] Sutherland, K. S., Granger, K. L., Conroy, M. A., McLeod, B. D., **Broda, M.**, Vallarta, N., & Rosas, A. (2023). Examining the role of student responsiveness in treatment effects of a tier 2 program targeting reductions in problem behavior. *Prevention Science*, 24(5), 974-984. <https://doi.org/10.1007/s11121-023-01537-x>
- [47] Ohrt, J., Clarke, P., Conley, A., & **Broda, M.** (2024). Mental health and well-being during the COVID-19 pandemic: Examining well-being as a mediator of pandemic stress. *Journal of Mental Health Counseling*, 46(1), 19-37. <https://doi.org/10.17744/mehc.46.1.02>
- [46] Inge, K.J., Avellone, L., Wehman, P., **Broda, M.**, & Joy, J. (2023). Effects of customized employment on the independence of youth with Intellectual and Developmental Disabilities. *Intellectual and Developmental Disabilities*, 61(6), 481-491. <https://doi.org/10.1352/1934-9556-61.6.481>
- [45] Lineberry, S., Bogenschutz, M., **Broda, M.**, Dinora, P., Prohn, S., & West, A. (2023). Co-occurring mental illness and behavioral support needs in adults with Intellectual and Developmental Disabilities. *Community Mental Health Journal*, 59(6), 1119-1128. <https://doi.org/10.1007/s10597-023-01091-4>
- [44] Granger, K.L., Chow, J., **Broda, M.**, Pandey, T., & Sutherland, K.S. (2024). A preliminary investigation of the role of classroom contextual effects on teaching efficacy and classroom quality. *Preventing School Failure*, 68(2), 103-112. <https://doi.org/10.1080/1045988X.2022.2161457>
- [43] Dinora, P., Prohn, S., Bogenschutz, M., **Broda, M.**, Lineberry, S., & West, A. (2023). An examination of support needs, supports, and outcomes for people with intellectual and developmental disabilities. *Intellectual and Developmental Disabilities*, 61(1), 65-78. <https://doi.org/10.1352/1934-9556-61.1.65>
- [42] Chan, D. M., **Broda, M. D.**, Winslow, J., Jones, Q., Luce, C., McGinnis, H. A. et al. (2022). The effects of prime supporters within college students' support network. *Nonlinear Dynamics, Psychology, and Life Sciences*, 26(4), 423-440. <https://www.ncbi.nlm.nih.gov/pubmed/36149269>

- [41] Chow, J., **Broda, M.**, Granger, K., Sayers, R., Washington-Nortey, M., & Dunn, D. (2023). A sociometric approach to understanding characteristics of same- and other-gender friendships in young children. *Early Childhood Research Quarterly*, 62, 385-393. <https://doi.org/10.1016/j.ecresq.2022.09.009>
- [40] **Broda, M.**, Bogenschutz, M., Lineberry, S., Dinora, P., Prohn, S., & West, A. (2023). Comparing employment, employment services, and employment goals in propensity-matched samples of people with intellectual and developmental disabilities with and without autism. *Journal of Vocational Rehabilitation*, 58(3), 307-316. <https://doi.org/10.3233/jvr-230019>
- [39] Chow, J., Granger, K., **Broda, M.**, & Washington-Nortey, M. (2023). Influence of externalizing behavior on friendship centrality and reciprocity in Kindergarten classrooms. *Journal of Emotional and Behavioral Disorders*, 31(4), 235-247. <https://doi.org/10.1177/10634266221110861>
- [38] Wehman, P., Schall, C., Avellone, L., McDonough, J., Whittenburg, H., Dubois, T., & **Broda, M.** (2022, in press). Effects of a 9-Month Military-Base Internship on the Competitive Integrated Employment of Military Dependent and Connected Youth with ASD. *Journal of Autism and Developmental Disorders*, 53(9), 3525-3541. <https://doi.org/10.1007/s10803-022-05634-8>
- [37] Traugott, A., Greenhalgh, G., Goebert, C., **Broda, M.**, & Havard, C. (2023). Consumption Determinants in the National Hockey League: The Influence of Violence in the United States and Canada. *International Journal of Sport Management and Marketing* (1/2), 154-173. <https://doi.org/10.1504/IJSMM.2023.10055632>
- [36] Bogenschutz, M., Dinora, P., Lineberry, S., Prohn, S., **Broda, M.**, & West, A. (2022). Promising practices in the frontiers of quality outcomes measurement for intellectual and developmental disability services. *Frontiers in Rehabilitation Sciences: Disability, Rehabilitation, and Inclusion*, 3. <https://doi.org/10.3389/fresc.2022.871178>
- [35] Zumbrunn, S., Ekholm, E., **Broda, M.D.**, & Koenka, A.C. (2022). Trajectories of students' writing feedback attitudes. *Journal of Experimental Education*, 91(4), 1-20. <https://doi.org/10.1080/00220973.2022.2064413>
- [34] Kim, S., Yun, J., Schneider, B., **Broda, M.**, Klager, C., & Chen, I.-C. (2022). The Effects of Growth Mindset on College Persistence and Completion. *Journal of Economic Behavior and Organization*, 195, 219-235. <https://doi.org/10.1016/j.jebo.2022.01.002>
- [33] Prohn, S. M., Dinora, P., **Broda, M. D.**, Bogenschutz, M., & Lineberry, S. (2022). Measuring Four Personal Opportunities for Adults With Intellectual and Developmental Disabilities. *Inclusion*, 10(1), 19-34. <https://doi.org/10.1352/2326-6988-10.1.19>
- [32] Frazier, A., Silva, J., Meilak, R., Sahoo, I., Chan, D., & **Broda, M.** (2021, in press). Decision Tree-Based Predictive Models for Academic Achievement Using College Students' Support Networks. *Journal of Data Science*. <https://doi.org/10.6339/21-JDS1033>
- [31] Washington-Nortey, M., Granger, K., **Broda, M.**, Chow, J., Sutherland, K., & McLeod, B. (2022). School-Based Relationships Among Children with or at Risk for Emotional and Behavioral Disorders. *Perspectives on Early Childhood Psychology and Education*, 6(2), Article 8. <https://doi.org/10.58948/2834-8257.1017>
- [30] **Broda, M.**, Granger, K., Chow, J., & Ross, E. (2023). Using Social Network Analysis in Applied Psychological Research: A Tutorial. *Psychological Methods*, 28(4), 791-805. <https://doi.org/10.1037/met0000451>
- [29] Bogenschutz, M., **Broda, M.**, Lineberry, S., Dinora, P., & Prohn, S. (2021). The Development and Validation of a Survey-Based Measure of Health and Wellness for Individuals with I/DD. *Developmental Disabilities Network Journal*, 2(1), 85-103. <https://doi.org/10.59620/2694-1104.1040>
- [28] McLeod, B. D., Sutherland, K. S., **Broda, M.**, Granger, K. L., Martinez, R. G., Conroy, M. A., Snyder, P. A., & Southam-Gerow, M. A. (2022). Development and initial

- psychometrics of a generic treatment integrity measure designed to assess practice elements of evidence-based interventions for early childhood settings. *Prevention Science*, 23(4), 488-501. <https://doi.org/10.1007/s11121-021-01304-w>
- [27] Sjogren, A., Zumbrunn, S., **Broda, M.**, Bae, C., & Deutsch, N. (2022). Understanding Afterschool Engagement: Investigating Developmental Outcomes for Adolescents. *American Journal of Community Psychology*, 69(1-2), 169-182. <https://doi.org/10.1002/ajcp.12554>
- [26] Sjogren, A., Bae, C., Zumbrunn, S., Deutsch, N., & **Broda, M.** (2022). Afterschool Engagement: A Mixed Methods Approach to Understanding Profiles of Youth Engagement. *Applied Developmental Science*, 26(4), 638-656. <https://doi.org/10.1080/10888691.2021.1947140>
- [25] Chow, J., **Broda, M.**, Granger, K., Deering, B.T., & Dunn, K. (2022). Language Skills Predict Friendship Networks in Kindergarten Classrooms. *Journal of School Psychology*, 37(6), 488-500. <https://doi.org/10.1037/spq0000451>
- [24] Granger, K. L., **Broda, M. D.**, Chow, J. C., McCormick, N., & Sutherland, K. S. (2021). A Preliminary Investigation of Teacher-Reported, Classroom-Level Adversity and Teacher-Student Interactions. *Journal of Emotional and Behavioral Disorders*, 29(4), 238-251. <https://doi.org/10.1177/10634266211020260>
- [23] **Broda, M.**, Bogenschutz, M., Dinora, P., Lineberry, S., & Ross, E. (2021). Using Machine Learning to Predict Patterns of Employment and Day Program Participation. *American Journal on Intellectual and Developmental Disabilities*, 126(6), 477-491. <https://doi.org/10.1352/1944-7558-126.6.477>
- [22] McLeod, B. D., Sutherland, K. S., **Broda, M.**, Granger, K. L., Cecilion, J., Cook, C. R., Conroy, M. A., Snyder, P. A., & Southam-Gerow, M. A. (2022). Examining the correspondence between teacher- and observer-report treatment integrity measures. *School Mental Health*, 14(1), 20-34. <https://doi.org/10.1007/s12310-021-09437-7>
- [21] Zhang, F., Bae, C. L., & **Broda, M.** (2022). Science Self-Concept, Relatedness, and Teaching Quality: a Multilevel Approach to Examining Factors that Predict Science Achievement. *International Journal of Science and Mathematics Education*, 20(3), 503-529. <https://doi.org/10.1007/s10763-021-10165-2>
- [20] Brendli, K., **Broda, M.**, & Brown, R. (2022). Children with Intellectual Disability and Victimization: A Logistic Regression Analysis. *Child Maltreatment*, 27(3), 320-324. <https://doi.org/10.1177/1077559521994177>
- [19] McLeod, B., Cook, C., Lyon, A., Sutherland, K., **Broda, M.**, Dopp, A., & Beidas, R. (2022). A Theory-Informed Approach To Locally-Managed Learning School Systems Integrating Treatment Integrity And Youth Mental Health Outcome Data To Promote Youth Mental Health. *School Mental Health*, 14(1), 88-102. <https://doi.org/10.1007/s12310-021-09413-1>
- [18] Chow, J. C., Granger, K. L., **Broda, M. D.**, & Peterson N. (2020, Online First). Predictive role of classroom management in literacy development in preschool children at-risk for EBD. *Behavioral Disorders*, 47(1), 53-63. <https://doi.org/10.1177/0198742920972322>
- [17] **Broda, M.**, Ekholm, E., & Zumbrunn, S. (2020). Assessing the predictive nature of teacher and student writing self-regulation discrepancy. *Frontline Learning Research*, 8(4), 52-73. <https://doi.org/10.14786/flr.v8i4.505>
- [16] Dinora, P., Bogenschutz, M., & **Broda, M.** (2020). Identifying Predictors for Enhanced Outcomes for People With Intellectual and Developmental Disabilities. *Intellectual and Developmental Disabilities*, 58(2), 139-157. <https://doi.org/10.1352/1934-9556-58.2.139>
- [15] Limberg, D., Gniska, P., & **Broda, M.** (2021). Advancing the Counseling Profession by Examining Relationships Between Variables. *Journal of Counseling and Development*, 99(2), 145-155. <https://doi.org/10.1002/jcad.12362>

- [14] Liu, X., Wheeler, N. J., **Broda, M. D.**, Daire, A. P., Dominguez, V. N., Griffith, S.A.M., & Pease, J. C. (2020). Relationship satisfaction trajectories among low-income ethnic minority couples before and after a relationship education intervention. *Journal of Social and Personal Relationships*, 37(7), 2053-2077. <https://doi.org/10.1177/0265407520916203>
- [13] Cheng, S., Prohn, S., Bogenschutz, M., **Broda, M.**, & Dinora, P. (2020). Measuring and Tracking Personal Opportunity Outcome Measures Over Three Years to Guide Policy and Services that Promote Inclusive Community Living. *Inclusion*, 8(4), 335-350. <https://doi.org/10.1352/2326-6988-8.4.335>
- [12] Sutherland, K. S., Conroy, M. A., McLeod, B. D., Granger, K., **Broda, M.**, & Kunemund, R. (2020). Preliminary Study of the Effects of BEST in CLASS-Elementary on Outcomes of Elementary Students With Problem Behavior. *Journal of Positive Behavior Interventions*, 22(4), 220-233. <https://doi.org/10.1177/1098300719900318>
- [11] **Broda, M.**, Tucker, S., Ekholm, E., Johnson, T. N., & Liang, Q. (2019). Small fingers, big data: Preschoolers' subitizing speed and accuracy during interactions with multitouch technology. *The Journal of Educational Research*, 112(2), 211-222. <https://doi.org/10.1080/00220671.2018.1486281>
- [10] Gnilka, P. B., & **Broda, M. D.** (2019). Multidimensional perfectionism, depression, and anxiety: Tests of a social support mediation model. *Personality and Individual Differences*, 139, 295-300. <https://doi.org/10.1016/j.paid.2018.11.031>
- [9] Zumbrunn, S., **Broda, M.**, Varier, D., & Conklin, S. (2020). Examining the multidimensional role of self-efficacy for writing on student writing self-regulation and grades in elementary and high school. *The British Journal of Educational Psychology*, 90(3), 580-603. <https://doi.org/10.1111/bjep.12315>
- [8] Zumbrunn, S., Marrs, S., **Broda, M.**, Ekholm, E., DeBusk-Lane, M., & Jackson, L. (2019). Toward a More Complete Understanding of Writing Enjoyment: A Mixed Methods Study of Elementary Students. *AERA Open*, 5(2). <https://doi.org/10.1177/2332858419850792>
- [7] **Broda, M.**, Ekholm, E., Schneider, B., & Hutton, A. C. (2018). Teachers' Social Networks, College-Going Practices, and the Diffusion of a School-Based Reform Initiative. *SAGE Open*, 8(4). <https://doi.org/10.1177/2158244018817397>
- [6] **Broda, M.**, Yun, J., Schneider, B., Yeager, D. S., Walton, G. M., & Diemer, M. (2018). Reducing Inequality in Academic Success for Incoming College Students: A Randomized Trial of Growth Mindset and Belonging Interventions. *Journal of Research on Educational Effectiveness*, 11(3), 317-338. <https://doi.org/10.1080/19345747.2018.1429037>
- [5] **Broda, M.** (2017). Using Multilevel Models to Explore Predictors of High School Students' Nonresponse in Experience Sampling Method (ESM) Studies. *Social Science Computer Review*, 35(6), 733-750. <https://doi.org/10.1177/0894439316667049>
- [4] Goodwin, R. N., Li, W., **Broda, M.**, Johnson, H., & Schneider, B. (2016). Improving College Enrollment of At-Risk Students at the School Level. *Journal of Education for Students Placed at Risk*, 21(3), 143-156. <https://doi.org/10.1080/10824669.2016.1182027>
- [3] Schneider, B., Krajcik, J., Lavonen, J., Salmela-Aro, K., **Broda, M.**, Spicer, J., Bruner, J., Moeller, J., Linnansaari, J., Juuti, K., & Viljaranta, J. (2016). Investigating optimal learning moments in U.S. and Finnish science classes. *Journal of Research in Science Teaching*, 53(3), 400-421. <https://doi.org/10.1002/tea.21306>
- [2] Schneider, B., Saw, G., & **Broda, M.** (2016). A Future for the National Education Longitudinal Program. *AERA Open*, 2(2). <https://doi.org/10.1177/2332858416634686>
- [1] Schneider, B., **Broda, M.**, Judy, J., & Burkander, K. (2013). Pathways to college and STEM careers: enhancing the high school experience. *New Directions for Youth Development*, 2013(140), 9-29. <https://doi.org/10.1002/yd.20076>

Book Chapters

- [3] **Broda, M.D.**, & Schwidkay, P. (2025). Longitudinal datasets in education: an overview and brief user's guide. In Srivastava, S. (Ed.), *Encyclopedia of Measurement in the Social Sciences (2nd Ed.)*. Elsevier.
- [2] Brown, K., Brown, R., DeRamus, M., Parlier, M., & **Broda, M.** (2023). Children with Disabilities: Preventing Sexual Violence and Supporting Survivors. In T. Huizar & P. DiLorenzo (Eds.), *Child Sexual Abuse: Practical Approaches to Prevention and Intervention*. Washington, DC: Children's Welfare League of America.
- [1] Schneider, B., Judy, J., Mazuca Ebmeyer, C., & **Broda, M.** (2014). Trust in Elementary and Secondary Urban Schools: A Pathway for Student Success and College Ambition. In D. Van Maele, P. B. Forsyth, & M. Van Houtte (Eds.), *Trust and School Life: The Role of Trust for Learning, Teaching, Leading, and Bridging* (pp. 37-56). Springer Netherlands. https://doi.org/10.1007/978-94-017-8014-8_2

Funded External Research Grants

US Department of Education, \$2,400,000 (funded), 2025-2030. Office of Special Education and Rehabilitation Services (SERS). McDonough, J. (PI). Title: *Preparing VR Participants for High-Quality Employment in STEM & Tech (AI)*. Role: Key Personnel (AI Lead Researcher)

US Department of Health and Human Services, \$4,400,000 (funded), 2024-2029. National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). Wehman, P. (PI). Title: *Employment of Persons with Intellectual and Developmental Disabilities*. Role: Co-Investigator (Psychometrician)

National Institute of Mental Health, \$3,960,000 (funded), 2023-2028. National Institutes of Health (NIH). Brown, R. (PI). Title: *Development and Validation of the Down Syndrome Regression Rating Scales*. Role: Co-Investigator (Methodologist)

US Department of Health and Human Services, \$600,000 (funded), 2022-2024. National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). Dinora, P. (PI). Title: *Identifying Longitudinal Trends in Enhanced Outcomes for People with I/DD*. Role: Key Personnel (Methodologist)

US Department of Education, Institute for Education Sciences, \$1,400,000 (funded), 2021-2024. McLeod (PI). Title: *Project TIES: Developing and Evaluating a Treatment Integrity Instrument in Elementary Settings to Support Evidence Based Practices*. Role: Co-Investigator (Methodologist)

Spencer Foundation, Small Grant Competition, \$49,967 (funded), 2020-2022. Zumbunn (PI). Title: *The pathways to belonging and engagement project: Testing a tailored social belonging intervention at an urban public university*. Role: Co-Principal Investigator

US Department of Education, Institute for Education Sciences, \$3,290,000 (funded), 2018-2023. Sutherland, K., Conroy, M., & McLeod, B. (PIs). Title: *Testing the Efficacy of BEST in CLASS-Elementary (BiC-E) Using a Multi-Site CRT*. Role: Co-Investigator (Methodologist)

US Department of Health and Human Services, \$600,000 (funded), 2018-2020. National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). Dinora, P. (PI). Title: *Identifying Predictors for Enhanced Outcomes for People with I/DD*. Role: Key Personnel (Methodologist)

Mindset Scholars Network, National Study of Learning Mindsets, \$8,000 (funded), 2018-2019. Broda, M. (PI). Title: *The Formation of Learning Profiles in Context: A Multilevel Latent Profile Analysis of Math Anxiety, Math Achievement, and Math Interest in Adolescents*. Role: PI

Center for Curriculum Redesign, \$125,000 (funded), 2017-2018. Zumbrunn, S. (PI). Title: *RoboCogger: Using Mobile Technology to Assess and Increase Student Writing Metacognition, Motivation, and Performance*. Role: Co-Investigator

External Grants Under Review

US Department of Health and Human Services, \$600,000 (under review), 2025-2028. National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). Dinora, P. (PI). Title: *Evaluating the Impact of the HCBS Access and Settings Rules on Personal Outcomes Across HCBS User Groups*. Role: Key Personnel (Methodologist)

Selected Unfunded External Research Grants

Institute for Education Sciences, \$3,600,000 (under review), 2025-2030. Farmer, T. (PI). Title: *Developing a targeted universal ecosystem framework to support diverse math and science learners: responding to intersectionality with the rural elementary STEM-ADAPT project*. Role: Co-I

Institute for Education Sciences, \$3,600,000 (under review), 2025-2030. McLeod, B. (PI). Title: *Elucidating How and Why Teacher-Level Determinants Predict EBP Implementation and Sustainment Outcomes in Elementary Schools*. Role: Co-I

Institute for Education Sciences, \$12,000,000 (not funded), 2024-2029. Farmer, T. (PI). Title: *National Research Center on Rural STEM Education: The Secondary STEM-BASE Project to Support Diverse Rural Students and Places*. Role: Co-PI

Institute for Education Sciences, \$3,600,000 (not funded), 2024-2029. Sutherland, K. (PI). Title: *Integrated Best in Class (iBiC)*. Role: Co-I

Institute for Education Sciences, \$1,400,000 (not funded), 2020-2023. Zumbrunn, S. (PI). Title: *Motivating Successful Writers: Exploring Classroom Instruction*. Role: Co-PI

Institute for Education Sciences, \$1,200,000 (not funded), 2020-2023. Sutherland & Conroy (Co-PIs). Title: *Long-term Follow-up of the BEST in CLASS-Elementary Program*. Role: Co-I

Institute for Education Sciences, \$1,400,000 (not funded), 2020-2023. Wood, J. (PI). Title: *Development of a Comprehensive Intervention Model to Improve Emotion Regulation for Students with Autism*. Role: Co-I

National Institutes of Health, \$750,000 (not funded), 2020-2022. Chow, J. (PI). Title: *Development and Stability of Peer Social Networks of Children with and without Specific Language Impairment*. Role: Co-I

American Educational Research Association, \$35,000 (not funded), 2019-2021. Broda, M. (PI). Title: *Missing the Trees for the Forest: Using Machine Learning to Explore Contextual Predictors and Spatial Trends of Racial and Ethnic Disproportionality in Special Education Identification*. Role: PI

National Science Foundation, \$1,041,034 (not funded), 2019-2024. Broda, M. (PI). Title: *CAREER: Using Intensive Longitudinal Research to Better Understand First-Year STEM Students Social, Emotional, and Academic Trajectories*. Role: PI

National Institutes of Health, \$407,777 (not funded), 2019-2021. Chen, C. (PI). Title: *Low Income Students Mental Health and Educational Experiences: Relations, Patterns and Context*. Role: Key Personnel (Methodologist)

Funded Internal Research Grants

VCU College of Humanities and Sciences, \$23,500 (funded), 2019-2020. Scholarship Catalyst and Seed Award. Chan, D. (PI). Title: *Weak Ties, Strong Ties & Absent Ties: Developing Mathematical Models of College Students' Social Networks to Improve Mental Health and Educational Outcomes*. Role: Co-Principal Investigator

Virginia Commonwealth University, \$50,000 (funded), 2017-2018. Presidential Research Quest Award. Tefera, A. (PI). Title: *Missing the Trees for the Forest: Using Machine Learning to Explore Contextual Predictors and Spatial Trends of Racial and Ethnic Disproportionality in Special Education Identification*. Role: Co-Principal Investigator

Virginia Commonwealth University, \$50,000 (funded), 2016-2017. Presidential Research Quest Award. Tucker, S. (PI). Title: *Investigating Children's Mathematical Interactions with a Touchscreen Technology Environment*. Role: Key Personnel (Methodologist)

Refereed Professional Presentations

- [63] Sutherland, K. S., Conroy, M. A., **Broda, M.**, McLeod, B. D., & Granger, K. (2025, December). BEST in CLASS-Elementary – Findings from a Multisite RCT. Paper presented at the 2025 Advancing School Mental Health Conference, Orlando, FL.
- [62] Granger, K., Chow, J., Vogel, K.F., Vieten, E., & **Broda, M.D.**. Classroom Seating Placements of Students With or At Risk for Emotional and Behavioral Disorders. Paper presented at the Society for Research on Educational Effectiveness Annual Conference, Chicago, IL.
- [61] Vite, A., **Broda, M.D.**, Koenka, A.C., Naff, D., Nicolai, K.D., Berry, D.N., & DeBusk-Lane, M. (2025, August). Patterns and Predictors of High School Students' Expectancy Value Cost Profiles. Poster presented at the Annual Meeting of the American Psychological Association, Denver, CO.
- [60] Bogenschutz, M., Dinora, P., Prohn, S., Lineberry, S., West, A., & **Broda, M.D.** (2025, June). Using machine learning to understand medication use for behavioral and mental health management among adults with IDD. Paper presented at the Annual Meeting of

- the American Association on Intellectual and Developmental Disabilities, Washington, DC.
- [59] Greene, M., **Broda, M.D.**, et al. (2025, April). Zero-Shot Learning and Support Vector Machine Methods for Automated Abstract Screening in Scoping Reviews. Paper presented at the Annual Meeting of the American Educational Research Association, Denver, CO.
- [58] **Broda, M.D.**, Wang, T., Joy, J., Hui, J., Chang, C., Greene, M., Chen, C., Corning, A., Xia, Y., & Liu, X. (2025, April). A Scoping Review of Machine Learning Applications in Education Research. Poster presented at the Annual Meeting of the American Educational Research Association, Denver, CO.
- [57] Bogenschutz, M., Dinora, P., Prohn, S., Lineberry, S., **Broda, M.D.**, & West, A. (2024, November). Understanding Medication Use for Behavioral and Mental Health Support for Adults with IDD Using Machine Learning. Poster presented at the Annual Meeting of the Association of University Centers on Disabilities, Washington, DC.
- [56] Kaur, N., Sutherland, K., McLeod, B., **Broda, M.D.**, Ross, E., et al. (2024, September). Facilitators and Barriers to Implementation of a Statewide Early Childhood Curriculum. Poster presented at the Annual Meeting of the Society for Implementation Research Collaboration, Denver, CO.
- [55] Fu, Y., Granger, K., Chow, J., & **Broda, M.D.** (2024, September). Friendships of Students at Risk for Emotional and Behavioral Disorder. Paper presented at the Society for Research on Educational Effectiveness Annual Conference, Baltimore, MD.
- [54] Zumbrunn, S., **Broda, M.D.**, et al. (2024, April). Blind Spots in Belonging Intervention Research: Lessons Learned From a Participatory Mixed-Method Randomized Control Trial. Paper presented at the Annual Meeting of the American Educational Research Association, Philadelphia, PA.
- [53] Granger, K., Chow, J., & **Broda, M.D.** (2024, March). Classroom Social Dynamics Management: Considerations for Students with Challenging Behaviors. Paper presented at the 21st International Conference on Positive Behavior Support, Chicago, IL.
- [52] Granger, K., **Broda, M.D.**, & Chow, J. (2024, January). Attunement of student- and teacher-reported friendship networks in early childhood classrooms. Poster presented at the Pacific Coast Research Conference, San Diego, CA.
- [51] Lineberry, S., **Broda, M.D.**, Dinora, P., Bogenschutz, M., Prohn, S., & West, A. (2023, November). IDD Outcome Measurement in the Time of COVID-19. Poster presented at the Annual Meeting of the Association of University Centers on Disabilities, Washington, DC.
- [50] **Broda, M.D.**, Chow, J., & Granger, K.L. (2023, August). Using Social Network Analysis in Applied Psychological Research. Paper presented at the Annual Meeting of the American Psychological Association, Washington, DC.
- [49] Bogenschutz, M., Lineberry, S., Dinora, P., Prohn, S., & **Broda, M.D.** (2023, June). Employment Related Outcomes in a Matched Sample of People with IDD With and Without Autism. Poster presented at the Annual Meeting of the American Association on Intellectual and Developmental Disabilities, Pittsburgh, PA.
- [48] **Broda, M.D.**, Ross, E., Sorhagen, N., & Ekholm, E.E. (2023, May). Exploring Control-Value Motivational Profiles of Mathematics Anxiety, Self-Concept, and Interest in Adolescents. Paper presented at the Annual Meeting of the American Educational Research Association.
- [47] Cuba, M., **Broda, M.D.**, & Taylor, J. (2023, April). An Intersectional Analysis of Disproportionality: Examining Multilingual Learner Representation in Special Education. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago, IL.

- [46] **Broda, M.**, Corning, A., & Lucas, B. (2022, April). Designed for Equity: Computer Science Coursetaking and Student Engagement at an Interdistrict Magnet School. Paper presented at the Annual Meeting of the American Educational Research Association, San Diego, CA.
- [45] Lineberry, S., Bogenschutz, M., **Broda, M.**, Dinora, P., & Prohn, S. (2022, January). The Impact of Mental Health Diagnosis and Behavioral Support Needs on Personal Opportunity Outcomes for Adults with Intellectual and Developmental Disabilities. Paper presented at the Annual Meeting of the Society for Social Work Research, Washington, DC.
- [44] Koenka, A. C., **Broda, M.**, Agger, C. A., Anderman, E. M., Nicolai, K. D., Sjogren, A. L., & Zumbunn, S. (2021, August). Science motivation among Black high school students: An intersectional approach. Paper presented at the Annual Meeting of the American Psychological Association. Virtual.
- [43] Bogenschutz, M., Dinora, P., Lineberry, S., Prohn, S., & **Broda, M.** (2021, June). Relationships between support needs, service use, and personal outcomes for people who use developmental disability waiver services in Virginia. Paper presented at the American Association on Intellectual and Developmental Disabilities Annual Conference.
- [42] Brendli, K., **Broda, M.**, & Brown, R. (2021, April). Children with Intellectual Disability and Victimization. Poster accepted for presentation at the Annual Meeting of the Council on Exceptional Children.
- [41] **Broda, M.**, Corning, A., & Lucas, B. (2021, April). Equity and Achievement at a Computer-Science-Themed Interdistrict Magnet School: An Evaluation Case Study. Poster presented at the Annual Meeting of the American Educational Research Association.
- [40] Granger, K., Chow, J., **Broda, M.**, & Sutherland, K. (2021, April). Teaching Efficacy and Classroom Quality: The Role of Classroom Level Adversity. Poster accepted for presentation at the Biennial Meeting of the Society for Research in Child Development.
- [39] McMillan, J., Ross, E., Cabrera, L., Moore, S., & **Broda, M.** (2021, April). Development and Validation of the Student Perceptions of Assessment Student Self-Report Survey. Paper accepted for presentation at the Annual Meeting of the American Educational Research Association.
- [38] Dinora, P., **Broda, M.**, Prohn, S., Bogenschutz, M., & Lineberry, S. (2020, December). Using Merged Data to Predict Personal Outcomes for People who use Developmental Disability Waiver Services in Virginia. Poster accepted for presentation at the Annual Meeting of the Association of University Centers on Disabilities.
- [37] Chan, D., MacGinnis, H., **Broda, M.**, Hamid, H., Winslow, J., Jones, Q., & Ma, J. (2020, November). Prime Supporters in College Students' Support Networks. Paper presented at the Annual Symposium on Biomathematics and Ecology Education and Research.
- [36] Koenka, A. C., **Broda, M.**, Agger, C. A., Anderman, E. M., Nicolai, K. D., & Lester, A. M. (2020, August). Longitudinal Relations Between High School Science Motivation and Performance. Poster accepted for presentation at the Annual Meeting of the American Psychological Association, Washington, DC.
- [35] Furman, J., Zumbunn, S., Marrs, S., Kamat, P., Braxton, D., Ekholm, E., **Broda, M.** (2020, August). Exploring Elementary Student Writing Motivation and Success. Annual Meeting of the American Psychological Association, Washington, DC. [poster presentation canceled]
- [34] **Broda, M.**, Tefera, A.A., & Ekholm, E. (2020, June). Missing the Trees for the Forest: Using Machine Learning to Explore Contextual Predictors and Spatial Trends of Racial and Ethnic Disproportionality in Special Education Identification. Modern Modeling Methods Conference, Storrs, CT. [poster presentation canceled]

- [33] Granger, K., **Broda, M.**, & Chow, J. (2020, February). Teacher Interactions with Young Students at Risk for Emotional and Behavioral Disorders. Poster presented at the Conference on Research Innovations in Early Intervention, San Diego, CA.
- [32] Kim, S., Yun, J., Schneider, B., **Broda, M.**, & Klager, C. (2019, November). The Effects of Growth Mindset on College Persistence and Completion. Paper presented at the Annual Meeting of the Association for Public Policy Analysis and Management, Denver, CO.
- [31] **Broda, M.**, & Ekholm, E. (2019, October). The Formation of Mathematics Learning Profiles in Context. Paper presented at the Biannual Meeting of the Scholarly Consortium for Innovative Psychology in Education, Savannah, GA.
- [30] Chow, J., **Broda, M.**, & Granger, K. (2019, October). Contribution of Language Skills to Peer Social Networks in Kindergarten. Paper presented at the Biannual Meeting of the Scholarly Consortium for Innovative Psychology in Education, Savannah, GA.
- [29] Chen, I-C., **Broda, M.**, & Schneider, B. (2019, November). Providing Opportunities with Technology to Support Traditionally Disadvantaged Students: Examining the College Ambition Program. Paper presented at the Annual Meeting of the Midwest Sociology of Education Association, Columbus, OH.
- [28] Dinora, P., Bogenschutz, M., **Broda, M.**, & Prohn, S. (2019, November). New personal opportunity and wellness scales using the National Core Indicators. Poster presented at the Annual Meeting of the Association of Universities Centers on Disabilities, Washington, DC.
- [27] Chow, J., Granger, K., **Broda, M.**, Hetrick, A., & Peterson, N. (2019, May). Classroom Management Skill Predicts Children's Academic Achievement: A Longitudinal within-Year Investigation. Poster presented at the Annual Meeting of the Society for Prevention Research, San Francisco, CA.
- [26] **Broda, M.**, Ekholm, E., Schneider, B., & Hutton, A. (2019, April). Teachers' Social Networks, College-Going Practices, and the Diffusion of a School-Based Reform Initiative. Paper presented at the Annual Meeting of the American Educational Research Association, Toronto, Canada.
- [25] **Broda, M.**, Tefera, A.A., & Ekholm, E. (2019, April). Missing the Trees for the Forest: Using Machine Learning to Explore Contextual Predictors and Spatial Trends of Racial and Ethnic Disproportionality in Special Education Identification. Paper presented at the Annual Meeting of the American Educational Research Association, Toronto, Canada.
- [24] Ekholm, E., Zumbrunn, S., & **Broda, M.** (2019, April). The Development of Student Writing Feedback Attitudes in Grades 3-7: A Latent Growth Analysis. Poster presented at the Annual Meeting of the American Educational Research Association, Toronto, Canada.
- [23] McGinnis, H.A., Luce, C., **Broda, M.**, Chan, D. (2019, April). The Protective Role of Perceived Social Support on Post-Traumatic Stress and Depressive Symptoms among Adolescents in South Korean Orphanages. Poster presented at the 10th Anniversary Conference: NIMH Global Mental Health Research without Borders, Washington, DC.
- [22] Zumbrunn, S., **Broda, M.**, Ekholm, E., & Cabell, T. (2019, April). RoboCogger: Using Mobile Technology to Assess and Increase Student Writing Metacognition, Motivation, and Performance. Paper presented at the Annual Meeting of the American Educational Research Association, Toronto, Canada.
- [21] Zumbrunn, S., **Broda, M.**, Ekholm, E., & Marrs, S. (2019, April). The Complexities and Challenges of Understanding Individual Differences and the Development of Multiple Dimensions of Writing Self-Efficacy. Poster presented at the Annual Meeting of the American Educational Research Association, Toronto, Canada.
- [20] Liu, X., Wheeler, N., **Broda, M.**, et al. (2018, November). Relationship Satisfaction Trajectories among Low-income Ethnic Minority Couples after Intervention. Paper presented at the Annual Conference of the National Council on Family Relations, San Diego, CA.

- [19] **Broda, M.**, Ekholm, E., & Zumbrunn, S. (2018, October). Are We Grading the "Write" Stuff? The Relationship between Teachers' Expectations, Students' Self-Regulation and Writing Achievement. Paper presented at the Annual Conference of the Consortium for Research on Educational Assessment and Teaching Effectiveness, Williamsburg, VA.
- [18] Zumbrunn, S., & **Broda, M.** (2018, September). Domain-general Skills in Education: Psychology, Education, and Neuroscience Perspectives. Paper presented at the Sixth Biennial Meeting of the International Mind, Brain, and Education Society, Los Angeles, CA.
- [17] Gnilka, P., & **Broda, M.** (2018, August). Multidimensional Perfectionism, Depression, and Anxiety: Tests of a Social Support Mediation Model. Paper presented at the Annual Meeting of the American Psychological Association, San Francisco, CA.
- [16] Zumbrunn, S., **Broda, M.**, & Marrs, S. (2018, August). Individual differences and the development of multiple dimensions of writing self-efficacy. Poster presented at the Annual Conference of the Special Interest Group in Writing, European Association for Research on Learning and Instruction, Brussels, Belgium.
- [15] **Broda, M.**, Tucker, S., Ekholm, E., & Liang, Q. (2018, April). Small Fingers, Big Data: Preschoolers' Subitizing Speed And Accuracy During Interactions with Multi-touch Technology. Roundtable presented at the Annual Meeting of the American Educational Research Association, New York, NY.
- [14] Zumbrunn, S., Marrs, S., **Broda, M.**, Varier, D., & Conklin, S. (2017, April). Student Perceptions of Teacher and Peer Enthusiasm for Writing, Writing Attitudes, and Writing Self-Regulation: A Mixed Methods Study. Paper presented at the Annual Meeting of the American Educational Research Association, San Antonio, TX.
- [13] **Broda, M.** (2016, April). Using Multilevel Models to Explore Predictors of Nonresponse from Experience Sampling Method (ESM) Studies. Paper presented at the Annual Meeting of the American Educational Research Association, Washington, DC.
- [12] **Broda, M.** (2015, September). Exploring the Robustness of Longitudinal Models to Variable Response Rates using the Experience Sampling Method. Paper presented at the Annual Meeting of the World Education Research Association, Budapest, Hungary.
- [11] Judy, J., Schneider, B., & **Broda, M.** (2014, November). Response Rates, Attrition, and Student Participation in an Experience Sampling Method (ESM) Study: Implications for Internal and External Validity. Paper presented at the Annual Meeting of the World Education Research Association, Edinburgh, Scotland, UK.
- [10] Schneider, B., **Broda, M.**, & Judy, J. (2014, November). From Development to Scale Up: Challenges of the College Ambition Program. Paper presented at the Annual Meeting of the Association for Public Policy Analysis and Management, Albuquerque, NM.
- [9] Zumbrunn, S., & **Broda, M.** (2014, April). Examining Student Engagement in Secondary Science Classrooms Using Innovative Smartphone Technology. Paper presented at the Annual Meeting of the American Educational Research Association, Philadelphia, PA.
- [8] Zumbrunn, S., & **Broda, M.** (2014, March). Improving Postsecondary Outcomes for Low-Income and Minority Students: The Challenges of Taking an Intervention to Scale. Paper presented at the Spring Meeting of the Society for Research on Educational Effectiveness, Washington, DC.
- [7] Shorette-Remigio, R., & **Broda, M.** (2013, November). The Effects of Institutional Expenditures on Graduation Rates at Public, Four-Year Historically Black Colleges and Universities. Paper presented at the Annual Meeting of the Association for the Study of Higher Education, St. Louis, MO.
- [6] Lane, J., & **Broda, M.** (2013, April). Factors Influencing Teacher Retention and Participation in Extended Professional Development: A Boolean Analysis. Poster presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.

- [5] Saw, G., & **Broda, M.** (2013, April). High School Mathematics Graduation Requirements, Coursetaking and Academic Outcomes. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- [4] Schneider, B., **Broda, M.**, & Judy, J. (2013, April). STEM Interest, College Ambitions, and Coursetaking in Rural Michigan. Paper presented at the Conference on Culturally Responsive Evaluation and Assessment, Chicago, IL.
- [3] Schneider, B., **Broda, M.**, & Judy, J. (2013, March). Stemming the Summer "Melt": Results from an SMS (Text)-Based Intervention to Improve Fall Enrollment Rates. Paper presented at the Society for Research on Educational Effectiveness, Washington, DC.
- [2] Saw, G., & **Broda, M.** (2012, August). High School Mathematics Graduation Requirements, Coursetaking and Academic Outcomes. Paper presented at the Annual Meeting of the American Sociological Association, Chicago, IL.
- [1] Saw, G., & **Broda, M.** (2012, March). High School Mathematics Graduation Requirements, Coursetaking and Academic Outcomes. Paper presented at the Annual Meeting of the Association for Education Finance and Policy, Boston, MA.

Invited Lectures and Presentations

- [12] **Broda, M.D.** (2026, February 20th). Expert Panel Presenter on AI in Education. Invited talk for the AI Enterprise Accelerator Workshop, VCU Convergence Labs, Richmond, VA.
- [11] **Broda, M.D.** (2026, January 13th). Statistical Tools for Examining Survey Validity in Medical Education Research. Invited lecture for the Department of Psychiatry & Behavioral Sciences, Medical University of South Carolina - Columbia, Columbia, SC.
- [10] **Broda, M.D.** (2026, January 9th). Statistical Tools for Examining Survey Validity in Medical Education Research. Invited lecture for the Medical University of South Carolina - Greenville, Greenville, SC.
- [9] Greene, M., **Broda, M.D.**, Chang, C., & Chen, C. (2025, May 9th). Topic Modeling and Machine Learning in Educational Research. Workshop presented on behalf of the VCU School of Education, Office of Research and Faculty Development.
- [8] **Broda, M.D.** (2025, April 9th). Social Network Analysis and Machine Learning: Two New(ish) Tools to Advance Learning Sciences Research. Invited lecture for the Clemson University Department of Education and Human Development, Clemson, SC.
- [7] **Broda, M.D.** (2024, October 3rd). Deduction or Discovery? Opportunities for Machine Learning in Enhancing Special Education Research. Invited lecture for the Vanderbilt University Department of Special Education, Nashville, TN.
- [6] Chang, C., **Broda, M.D.**, & Greene, M.D. (2024, June 11th). I want to be a data scientist: Here's what I need to know about AI. Invited workshop talk for the Transformative PD for Transformative Learning Experiences to Transform the Workforce (T3) Program, Richmond, VA.
- [5] **Broda, M.D.**, Chang, C., Hui, J., Wang, T., Chen, C., & Liu, X. (2024, April 19th). The Opportunities and Risks of using AI in Research Processes, Part 2. Invited talk for the VCU School of Education Office of Research and Professional Development and the Institute for Collaborative Research in Education Professional Learning Series, Richmond, VA.
- [4] **Broda, M.D.**, Chang, C., Hui, J., Wang, T., Chen, C., & Liu, X. (2023, October 27th). What is machine learning? Key concepts and connections to education research. Invited talk for the VCU School of Education Office of Research and Faculty Development, Richmond, VA.
- [3] **Broda, M.D.** (2023, May 16th). Using Social Network Analysis in Applied School Classroom Research. Invited lecture for the Vanderbilt University Department of Special Education, Nashville, TN.

- [2] **Broda, M.D.** (2023, August 25th). Artificial and Real Intelligence: Tools to Organize Your Research Skills. Invited roundtable presentation for the 5th Annual VCU Holmes Scholars Research and Mentorship Summit, Richmond, VA.
- [1] Brown, K., Brown, R., DeRamus, M., Parlier, M., & **Broda, M.** (2023, April 20th). Sexual Violence Prevention for Children with Disabilities and Support for Survivors of Abuse: Recommendations and Best Practices for Practitioners and Family Members. Webinar presentation for the National Children's Alliance.

Postsecondary Teaching Experience

- Advanced Regression and Multivariate Statistics, Spring 2017/18/19/20/21/22/24/25
- Educational Statistics, Fall 2015/16/17/18
- Fundamentals of Educational Research, Spring 2016
- Multilevel Modeling, Spring 2016/Fall 2019/20/21/22/24
- Advanced Applied Data Analysis, Fall 2023

Memberships in Professional Organizations

- American Educational Research Association, 2009–present
- Society for Research on Educational Effectiveness, 2010–present
- American Psychological Association, 2018–present

Special Awards, Fellowships, and Other Honors

- Outstanding Reviewer Award, *American Educational Research Journal*, April 2025
- Distinguished Scholarship Award, VCU School of Education, Spring 2025
- National/International Recognition Award, VCU Office of the Provost, Fall 2024
- Award of Excellence, VCU School of Education, Spring 2022
- Distinguished Junior Faculty Award, VCU School of Education, Spring 2020
- Early Career Fellowship Award, Mindset Scholars Network, National Study of Learning Mindsets, 2018-2019
- Charles P. Ruch Award for Excellence in Teaching, VCU School of Education, Spring 2016
- McLeod Faculty Development Award, VCU School of Education, Spring 2016