

MATTHEW J. VALENTE, COLLEGE OF PUBLIC HEALTH
UNIVERSITY OF SOUTH FLORIDA

CONTACT INFORMATION

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EDUCATION

Ph.D. <i>Arizona State University</i> , Quantitative Research Methods (Advisor: David P. MacKinnon, Ph.D.)	2012-2018
M.A. <i>Arizona State University</i> , Quantitative Research Methods (Advisor: David P. MacKinnon, Ph.D.)	2012-2015
B.S. <i>University of North Florida</i> , Psychology (summa cum laude) (Advisor: Christopher Leone, Ph.D.)	2006-2010

POSITIONS HELD

<i>University of South Florida</i> , Associate Professor, College of Public Health	Aug. 2025 - Present
<i>University of South Florida</i> , Assistant Professor, College of Public Health	Aug. 2022 – Aug. 2025
<i>Florida International University</i> , Assistant Professor, Psychology	Aug. 2018 – July 2022

ACADEMIC AND PROFESSIONAL HONORS

Nominated for National Institute of Health Office of Disease Prevention Early-Stage Investigator Lecture Award	October 2023
Abstract of Distinction for organized symposium titled <i>Innovative Methods for Identifying Health Inequities</i> conducted at the meeting of the Society for Prevention Research, Washington DC.	June 2023
Nominated for membership in the Society of Multivariate Experimental Psychology (SMEP)	March 2023
National Research Service Award Predoctoral Fellowship (NRSA F31)	May 2017 – May 2018
SAS Student Ambassador Award to attend SAS Global Forum	2017 & 2018
Arizona State University, College of Liberal Arts and Sciences (CLAS) Graduate Excellence Award	2015 & 2017
Society of Multivariate Experimental Psychology (SMEP) Student Travel Award	2015
Arizona State University, Nominated for Graduate and Professional Student Association (GPSA) Teaching Excellence Award	2015

University of North Florida Outstanding Undergraduate Student Award in Psychology	2011
Psi Chi Research Award, The Annual Meeting of the Southeastern Psychological Association	2011
Graduated summa cum laude with Baccalaureate Honors from the University of North Florida	2010
Best Research Poster Award, The Annual Meeting of the Society of Southeastern Social Psychologists	2010
Society for Multivariate Experimental Psychology Minority Fellowship, Kansas University Statistics Workshop	2010
Ling Summer Scholarship, Kansas University Statistics Workshop	2010
University of North Florida Travel Grant, Kansas University Statistics Workshop	2010
University of North Florida Undergraduate Research Grant for Undergraduate Honors Thesis	2009
Florida Bright Futures Medallion Scholarship	2006-2010

RESEARCH FUNDING

Current Funded Research (2)

Title: Methods for Synthesizing Causal Mediation Effects in Single Case Experimental Design Data

PI:	Valente, Matthew
Role:	PI
Funding Agency:	Institute of Education Sciences
Direct Costs Requested:	\$751,971.00
Indirect Costs Requested:	\$144,211.00
Total Request:	\$896,182.00
Start and End Dates:	9/1/24 – 8/31/27

Title: Interventions for English Language Learners at Risk for ADHD

PI:	Schatz, Nicole
Role:	Co-I
Funding Agency:	Institute of Education Sciences
Subcontract Direct Costs Requested:	\$35,860.00
Subcontract Indirect Costs Requested:	\$17,900.00
Subcontract Total Request:	\$53,760.00
Start and End Dates:	8/1/21 – 7/31/26

Grants Under Review (4)**Title: Longitudinal Trajectories of Inflammation, Lp(a), and Cardiovascular Disease Risk Score**

Submitted: 10/15/25
 PI: Alman, Amy
 Role: Co-I
 Funding Agency: National Institutes of Health
 Start and End Dates: 7/1/26 – 6/30/28

Title: Advancement of Causal Mediation Analysis for Complex Survey Data

Submitted: 10/5/25
 PI: Valente, Matthew
 Funding Agency: American Educational Research Association
 Start and End Dates: 1/6/26 – 1/5/28

Title: Evaluating Sequencing of Pediatric Primary Care Guidelines for Young Children with ADHD

Submitted: 10/5/25
 PI: Fabiano, Greg
 Role: Co-I
 Funding Agency: National Institutes of Health
 Start and End Dates: 4/1/26 – 3/31/31

Title: Testing the Efficacy of Nutrition Intervention Strategies to Promote Healthy Eating Habits and Reduce Obesity Risk in Toddlers with Autism

Submitted: 7/21/25
 PI: Gray, Heewon
 Role: Co-I
 Funding Agency: Department of Defense
 Start and End Dates: 9/1/26 – 8/31/30

Previously Funded Research (2)**Title: Adapting a Parenting Intervention to Promote Healthy Screen Time Habits in Young Children with Externalizing Behavior Problems (No subcontract was granted after transitioning to USF)**

Submitted: 4/6/21
 PI: Shayl, Griffith
 Role: Co-I
 Funding Agency: National Institutes of Health
 Direct Costs Requested: \$275,000.00
 Indirect Costs Requested: \$130,625.00
 Total Request: \$405,625.00
 Start and End Dates: 12/1/21 – 11/30/23

Title: Modern Longitudinal Mediation Methods for Prevention Studies (Ruth L. Kirschstein Predoctoral Individual National Research Service Award F31)

Submitted: 4/15/16
 PI: Valente, Matthew
 Role: PI
 Funding Agency: National Institutes of Health
 Direct Costs Requested: \$64,595.00
 Indirect Costs Requested: \$0.00
 Total Request: \$64,595.00
 Start and End Dates: 5/1/17 – 7/31/18

RESEARCH PAPERS AND CHAPTERS

Peer Reviewed Articles

* Student co-author

47. **Valente, M. J.**, *Cao, B., Holthuisjen, D. D. B., Bours, M. J. L., Eussen, S. J. P. M., Weijenberg, M. P., & Rijnhart, J. J. M. (in press). Omission of main effects from regression models with a ratio variable as the focal exposure can result in bias and inflated type I error rates. doi: 10.1016/j.jclinepi.2025.112092.

46. Moeyaert, M., Fingerhut, J., Yang, P., *Lou, Y., Miočević, M., & **Valente, M. J.** (2025). Systematic Review of Single-Case Designs to Identify Mediator Characteristics. *Journal of Behavioral Education*, 1-25. doi:10.1007/s10864-025-09600-z

45. Carris, N. W., Mhaskar, R., Coughlin, E., Bracey, E., Yadav, H., Halade, G. V., & **Valente, M. J.** (2025). A mediation analysis assessing if interleukin-6 mediates the association between obesity and new-onset type-2-diabetes. *Journal of Diabetes and its Complications*, 39(9), 109110, doi:10.1016/j.jdiacomp.2025.109110.

44. Rijnhart, J.J.M., *Rabbers, A., *Rizzuto, S., Howard, A.M., & **Valente, M.J.** (2025). An umbrella review reveals that control variables are rarely considered as a source of heterogeneity in systematic reviews of observational studies. *Journal of Clinical Epidemiology*, 184, 111826, doi:10.1016/j.jclinepi.2025.11826.

43. **Valente, M. J.**, Rijnhart, J. J. M., Gonzalez, O. (2025). A novel approach to estimate moderated treatment effects and moderated mediated effects with continuous moderators. *Psychological Methods* 30(1), 1 - 15. doi:10.1037/met0000593

42. Rijnhart, J. J. M., **Valente, M. J.**, & MacKinnon, D.P. (2025). Why you should not estimate mediated effects using the difference-in-coefficients method when the outcome is binary. *Multivariate Behavioral Research*, 60(2) 296-304. doi:10.1080/00273171.2024.2418515.

41. **Valente, M. J.**, *Pang, J., & *Cao, B. (2025). Understanding who benefits the most from interventions: Implications for baseline target moderated mediation. *Prevention Science*, 26 149-160. doi:10.1007/s11121-025-01791-1

40. Chen, H., *Pang, J., *Zhao, Y., *Cao, B., **Valente, M.J.**, *Cen, W., & Evalknova, E. (2025). Investigating started sample size, completed sample size and drop-out rate in 10,252 phase III clinical trials: Insights from ClinicalTrials.gov. *British Journal of Pharmacology*. Advance online publication. doi: 10.1002/bcp.70023

39. *Gillenson, C. J., **Valente, M. J.**, Hagan, M. J., Mac-Niven, A. C., & Bagner, D. M. (2025). Impact of a brief parenting intervention on parent and infant imitation. *Behavior Therapy*, 56(3) 487-500. doi:10.1016/j.beth.2024.08.007.

38. *Akbar, S. A., Hayes, T., **Valente, M. J.**, Milbert, M. M., Cousins, J. C., Siegle, G. J., Ladouceur, C. D., Silk, J. S., Forbes, E. E., Ryan, N. D., Harvey, A. G., Dahl, R. E., & McMakin, D. L. (2025). Targeted sleep enhancement reduces residual anxiety symptoms in peri-adolescents previously treated for anxiety disorders. *Behavior Therapy*, 56(1) 133-144. doi: 10.1016/j.beth.2024.05.002

37. **Valente, M.J.**, *Pang, J., Rijnhart, J.J.M., Ferron, J., & Miočević, M. (2025). Estimating mediation effects in ABAB reversal designs. *Evaluation and the Health Professions (Special issue on Moving the Field of Youth Mental Health Intervention Effectiveness Forward Using Single-Case Experimental Design Studies)*, 48(1), 129-142. doi:10.1177/01632787231217000.

36. Chen., H., *Zhao, Y., *Cao, B., Petersen, D. J., **Valente, M. J.**, & *Cen, W. (2024). Breaking the silence of sharing data in medical research. *PLoS ONE*, 19(5): e0301917. doi: 10.1371/journal.pone.0301917

35. Kondracki, A., Attia, J. R., **Valente, M. J.**, Roth, K. B., Akin, M., McCarthy, C. A., & Barkin, J. L. (2024). Exploring a Potential Interaction Between the Effect of Specific Maternal Smoking Patterns and Comorbid Antenatal Depression in Causing Postpartum Depression. *Neuropsychiatric Disease and Treatment*, (20), 795-807. doi: 10.2147/NDT.S450.236

34. Chen, H., *Pang, J., *Zhao, Y., *Giddens, S., Ficek, J., **Valente, M. J.**, *Cao, B., & Daley, E. (2024). A data-driven approach to choosing privacy parameter for clinical trial data sharing under differential privacy. *Journal of the American Medical Informatics Association*, 31(5), 1135-1147. doi: 10.1093/jamia/ocae038.

33. *Frederick, J., Ng, M.-Y., **Valente, M. J.**, Venturo-Conerly, K., & Weisz, J. R. (2024). What CBT modules work best for whom? Identifying subgroups of depressed youths by their differential response to specific modules. *Behavior Therapy*, 55(4) 898-911. doi:10.1016/j.beth.2024.01.004

32. *Taskin, T., Torres, L., Roncancio, A. M., **Valente, M. J.**, Fernandez, A., Rahman, A., Nehme, L., Okeke, D., Lozano, A. D., *Ruiz, E., West, A. E., & Cano, M. A. (2023) Acculturative stress and self-rated health among Hispanic emerging adults: Examining the moderating effects of the social environment and social support. *Journal of Immigrant and Minority Health*, 35 1382-1391. doi:10.1007/s10903-023-01492-3

31. *Frederick, J., Ng, M.Y., **Valente, M. J.**, Chorpita, B. F., & Weisz, J. R. (2023). Do specific modules of cognitive behavioral therapy have measurable effects on youth internalizing symptoms? An idiographic approach. *Psychotherapy Research*, 33(3), 265-281. doi:10.1080/10503307.2022.2131475

30. Rijnhart, J. J. M., **Valente, M. J.**, Smyth, H. L., & MacKinnon, D. P. (2023). Statistical mediation analysis for models with a binary mediator and a binary outcome: the differences between causal and traditional mediation analysis. *Prevention Science*, 24, 408-418. doi: 10.1007/s11121-021-01308-6

29. *Zheng, B. & **Valente, M. J.** (2023). Evaluation of goodness-of-fit tests in random intercept cross-lagged panel models: Implications for small samples. *Structural Equation Modeling: A Multidisciplinary Journal*, 30(4), 604-617. doi:10.1080/10705511.2022.2149534

28. Gonzalez, O. & **Valente, M. J.** (2023). Accommodating a latent XM interaction in statistical mediation analysis. *Multivariate Behavioral Research*, 58(4), 659-674. doi:10.1080/00273171.2022.2119928

27. **Valente, M. J.**, Rijnhart, J. J. M., & Miočević, M. (2023). Causal mediation effects in single-case experimental designs. *Psychological Methods*, 28(2), 488-506. doi: 10.1037/met0000497

26. Rijnhart, J. J. M., Twisk, J. W. R., **Valente, M. J.**, & Heymans, M. W. (2022). Time lags and interactions in mixed-effects models impacted longitudinal mediation effect estimates. *Journal of Clinical Epidemiology* 151, 143-150. doi: 10.1016/j.jclinepi.2022.07.004

25. Scherer, E. A., Metcalf, S. A., Kim, S. J., Sweeney, M. A., Wu, J., Mazza, G. L., **Valente, M. J.**, MacKinnon, D. P., & Marsch, L. (2022). Momentary self-regulation: Scale development and preliminary validation. *JMIR Mental Health*, 9(5). doi: 10.2196/35273

24. Georgeson, A. R., **Valente, M. J.**, & Gonzalez, O. (2022) The effect of partial invariance on mediation in a two-wave mediation model. *Structural Equation Modeling: A Multidisciplinary Journal*, 29(6), 908-919. doi: 10.1080/10705511.2022.2067164

23. Fabiano, G., Tower, D., **Valente, M. J.**, Rejman, E., & Rodriguez, Z. (2022). An observational study of the morning and evening behavior of individuals with and without attention-deficit/hyperactivity disorder. *Journal of Attention Disorders*, 26(9), 1199-1211. doi: 10.1177.10870547211063644.

22. Kondracki, A. J., **Valente, M. J.**, Ibrahimou, B., & Bursac, Z. (2022) Risk of large for gestational age births at early, late and full term in relation to pre-pregnancy body mass index: Mediation by gestational diabetes status. *Paediatric and Perinatal Epidemiology*, 36(4), 566-576. doi: 10.1111/ppe.12809

21. Carson, T. B., **Valente, M.J.**, Wilkes, B. J., & Richard, L. (2022). Brief report: Prevalence and severity of auditory sensory over-responsivity in autism as reported by parents and caregivers. *Journal of Autism and Developmental Disorders*, 52(3), 1395-1402. doi: 10.1007/s10803-021-04991-0

20. Sibley, M. H., Coxe, S. J., Stein, M. A., Meinzer, M. C., & **Valente, M. J.** (2022). Predictors of Treatment Engagement and Outcome among Adolescents with ADHD: An Integrative Data Analysis. *Journal of the American Academy of Child and Adolescent Psychiatry*, 61(1), 66-79. <https://doi.org/10.1016/j.jaac.2021.03.017>

19. Rijnhart, J. J. M., Lamp, S. J., **Valente, M. J.**, MacKinnon, D. P., Twisk, J. W. R., & Heymans, M. W. (2021). Mediation analysis methods used in practice: a scoping review and recommendations. *BMC Medical Research Methodology*, 21(1), 1-17. <https://doi.org/10.1186/s12874-021-01426-3>

18. **Valente, M. J.**, Georgeson, A. R., & Gonzalez, O. (2021) Clarifying the implicit assumptions of two-wave mediation models via the latent change score specification: An evaluation of model fit indices. *Frontiers in Psychology*. Doi: 10.3389/fpsyg.2021.709198

17. Georgeson, A. R., **Valente, M. J.** & Gonzalez, O. (2021). Evaluating response-shift bias in statistical mediation analysis. *Advances in Methods and Practices in Psychological Science*, 4(2), 1-13. doi: 10.1177/25152459211012271

16. Rijnhart, J. J. M., **Valente, M. J.**, MacKinnon, D. P., Twisk, J. W. R., & Heymans, M. W. (2021). The use of traditional and causal estimators for mediation models with a binary outcome and exposure-mediator interaction. *Structural Equation Modeling: A Multidisciplinary Journal*, 28(3), 345-355. doi:10.1080/10705511.2020.1811709.

15. **Valente, M. J.**, Rijnhart, J. J. M., Smyth, H. L., Muniz, F. B., & MacKinnon, D. P. (2020). Causal mediation programs in R, Mplus, SAS, SPSS, and Stata. *Structural Equation Modeling: A Multidisciplinary Journal*, 27(6), 975-984. doi:10.1080/10705511.2020.1777.133.

14. Kisbu-Sakarya, Y., MacKinnon, D. P., **Valente, M. J.**, & Cetinkaya, E. (2020). Causal mediation analysis in the presence of post-treatment confounding variables: A Monte Carlo simulation study. *Frontiers in Psychology*, 11, 2067. doi:10.3389/fpsyg.2020.02067.

13. Mazza, G. L., Smyth, H. L., Bissett, P. G., Canning, J. R., Eisenberg, I. W., Enkavi, A. Z., Gonzalez, O., Kim, S. Y., Metcalf, S. A., Muniz, F., Pelham III, W. E., Scherer, E. A., **Valente, M. J.**, Xie, H., Poldrack, R. A., Marsch, L.A., & MacKinnon, D. P. (2020). Correlation Database of 60 Cross-Disciplinary Surveys and Cognitive Tasks Assessing Self-Regulation. *Journal of Personality Assessment*, 103(2), 238-245. doi: 10.1080/00223891.2020.1732994.

12. MacKinnon, D. P., **Valente, M. J.**, & Gonzalez, O. (2020). The correspondence between causal and traditional mediation analysis: The link is the mediator by treatment interaction. *Prevention Science*, 21(2), 147-157. doi:/10.1007/s11121-019-01076-4.
11. **Valente, M. J.**, MacKinnon, D. P., & Mazza, G. L. (2020). A viable alternative when propensity scores fail: Evaluation of inverse propensity weighting and sequential g-estimation in a two-wave mediation model. *Multivariate Behavioral Research*, 55(2) 165-187. doi:10.1080/00273171.2019.1614429.
10. MacKinnon, D.P., **Valente, M. J.**, & Wurpts, I. C. (2018). Benchmark validation of statistical models: Application to mediation analysis of imagery and memory. *Psychological Methods*, 23(4), 654-671. doi:10.1037/met0000174.
9. **Valente, M. J.**, Pelham, W. E., III, Smyth, H., & MacKinnon, D. P. (2017). Confounding in statistical mediation analysis: What it is and how to address it. *Journal of Counseling Psychology*, 64(6), 659-671. doi: 10.1037/cou0000242.
8. Eisenberg, I. W., Bisset, P. G., Canning, J. R., Dallery, J., Enkavi, A. Z., Gabrieli, S. W., Gonzalez, O., Green, A. I., Greene, M A., Kiernan, M., Kim, S. J., Li, J., Lowe, M., Mazza, G. L., Metcalf, S. A., Onken, L., Parikh, S. S., Peters, E., Prochaska, J. J., Scherer, E. A., Stoeckel, L. E., **Valente, M. J.**, Wu, J., Xie, H., MacKinnon, D. P., Marsch, L. A., & Poldrack, R. A. (2017). Applying novel technologies and methods to inform the ontology of self-regulation. *Behavior Research and Therapy (Special issue on Science of Behavior Change)*, 101, 46-57. doi: 10.1016/j.brat.2017.09.014.
7. Miočević, M., Gonzalez, O., **Valente, M. J.**, & MacKinnon, D. P. (2017). A tutorial in Bayesian Potential Outcomes Mediation Analysis. *Structural Equation Modeling: A Multidisciplinary Journal*, 25(1), 121-136. doi: 10.1080/10705511.2017.1342541.
6. **Valente, M. J.**, & MacKinnon, D. P. (2017). Comparing models of change to estimate the mediated effect in the pretest-posttest control group design. *Structural Equation Modeling: A Multidisciplinary Journal*, 24(3), 428-450. doi: 10.1080/10705511.2016.1274657
5. Kuehl, K. S., Elliot, D. L., Goldberg, L., MacKinnon, D. P., O'Rourke, H. P., DeFrancesco, C., Miočević, M., **Valente, M. J.**, Sleigh, A., Garg, McGinnis, W., Kuehl, H. (2016). The SHIELD (Safety and Health Improvement: Enhancing Law Enforcement Departments) study: Mixed methods longitudinal findings. *Journal of Occupational and Environmental Medicine*, 58(5), 492-498. doi: 10.1097/JOM.0000000000000716.
4. **Valente, M. J.**, Gonzalez, O., Miočević, M., & MacKinnon, D. P. (2016). A note on testing mediated effects in structural equation modeling: Reconciling past and current research on the test of joint significance. *Educational and Psychological Measurement*, 76(6), 889-911. doi: 10.1177/0013164415618992.
3. MacKinnon, D. P., & **Valente, M. J.** (2014). Mediation from multilevel to structural equation modeling. *Annals of Nutrition and Metabolism*, 65(2-3), 196-202. doi: 10.1159/000362505.
2. Kuehl, K. S., Elliot, D. L., Goldberg, L., MacKinnon, D. P., Vila, B. J., Smith, J., Miočević, M., O'Rourke, H. P., **Valente, M. J.**, DeFrancesco, C., Sleigh, A., & McGinnis, W. (2014). The safety and health improvement: enhancing law enforcement departments study: feasibility and findings. doi: 10.3389/fpubh.2014.00038. *Frontiers in Public Health*, 2(38), 1-7.
1. Clarkson, J. J., **Valente, M. J.**, Leone, C., & Tormala, Z. L. (2013). Motivated Reflection on Attitude-Inconsistent Information: An Exploration of the Role of Fear of Invalidity in Self-Persuasion. *Personality and Social Psychology Bulletin*, 39(12), 1559-1570. doi: 10.1177/0146167213497983.

Invited Commentaries

1. Rijnhart, J. J. M., & **Valente, M. J.** (2022). Commentary: Explaining intervention and exposure effects: an introduction to mediation analysis. *Seminars in Thoracic and Cardiovascular Surgery*, 34(4), 1298-1299. doi:10.1053/j.semcts.2021.11.010

Scoping Review Protocols

2. Rijnhart, J. J. M., *Rizzuto, S., *Rabbers, A., *Guevarra, P., Howard, A. M., & **Valente, M. J.** (2024, October 22). Assessment of the methodological quality of systematic reviews of observational epidemiologic studies: an umbrella review protocol. *Open Science Framework Registries* (currently under embargo).
1. Rijnhart, J. J. M., Howard, A. M., *Rabbers, A., *Rizzuto, S., & **Valente, M. J.** (2024, January 16). Consideration of third-variable adjustment as a source of heterogeneity in systematic reviews of observational epidemiologic studies: an umbrella review protocol. *Open Science Framework Registries*. <https://doi.org/10.17605/OSF.IO/9NSKC>

Proceedings

2. **Valente, M. J.**, & MacKinnon, D. P. (2018). SAS® macros for computing causal mediated effects in two-and three-wave longitudinal models. In *Proceedings of the SAS Global Forum 2018 Conference*, Denver CO: SAS Institute Inc.
1. **Valente, M. J.**, & MacKinnon, D. P. (2017). SAS® macros for computing the mediated effect in the pretest posttest control group design. In *Proceedings of the SAS Global Forum 2017 Conference*, Orlando FL: SAS Institute Inc.

Chapters in Books

3. **Valente, M. J.**, Rijnhart, J. J. M., MacKinnon, D. P. Modern causal mediation and longitudinal models for developmental data. *Handbook of Research Methods in Developmental Science* Second Edition (2024). Ed. Douglas M. Teti. Wiley-Blackwell.
2. Gonzalez, O., **Valente, M. J.**, Cheong, J. & MacKinnon, D. P. Mediation/Indirect Effects in Structural Equation Modeling. *Handbook of Structural Equation Modeling* Second Edition (2023). Ed. Rick H. Hoyle. New York: Guilford Press.
1. MacKinnon, D. P., & **Valente, M. J.** Mediation analysis. *Oxford Bibliographies in Psychology* (2019). Ed. Dana S. Dunn. New York: Oxford University Press.

PRESENTED PAPERS AND LECTURES

Invited Lectures

9. **Valente, M. J.** (2024, June). *Mediation and Moderation Analysis for Health Interventions*. Invited talk presented in Applied Public Health Research and Evaluation Methods (PHC 7702), College of Public Health, University of South Florida Tampa, FL.
8. **Valente, M. J.** (2023, May). *Mediation effects in single-case experimental designs*. In A. Montoya (Chair) *Understanding Causal Mediation Analysis*. Organized symposium conducted at the annual meeting of the Association of Psychological Science (APS), Washington, DC.
7. **Valente, M. J.** (2022, April). *A novel approach to estimate moderated effects with continuous variables*. Invited virtual talk presented at the Aging and Longitudinal Modeling Research Group Methodology Meeting, at Amsterdam University Medical Center, Amsterdam, the Netherlands.
6. **Valente, M. J.** (2021, May). *Causal mediation effects in Single Case Experimental Designs (SCEDs)*. Invited talk presented at the Mediation Research Days Virtual Meeting, at McGill University Montreal, Canada.

5. **Valente, M. J.** (2021, April). *Causal mediation effects in Single Case Experimental Designs (SCEDs)*. Invited talk presented at the UCLA Department of Psychology, Quantitative Area brown bag seminar, at University of California, Los Angeles, CA.
4. **Valente, M. J.** (2020, October). *Significance testing in statistical mediation analysis*. Invited talk presented at the ReACH Lab, at Florida International University, Miami, FL.
3. **Valente, M. J.** (2019, November). *Total effect decomposition in mediation analysis using the potential outcomes framework*. Invited talk presented at the Quant Forum at the University of North Carolina at Chapel Hill, Chapel Hill, NC.
2. **Valente, M. J.** (2019, August). *Temporal design considerations in longitudinal mediation models: It's about "time"*. Invited talk presented at Single Subject Causal Mediation Analysis Workshop, Lorentz Center, Leiden, the Netherlands.
1. **Valente, M. J.** (2019, February). *Introduction to causal inference*. Invited talk presented at the Developmental Research Methods Graduate Course (DEP 5796), Florida International University, Miami, FL.

Workshops

7. **Valente, M. J.** (2025, February). *Basic statistics refresher for intervention studies*. Invited workshop presented (virtually) at the Professional Development Seminar in the Department of Psychology at Florida International University.
6. **Valente, M. J.** (2022, October). *Mediation analysis for health disparities research*. Invited workshop presented (virtually) at the National Hispanic Science Network Early Career Leadership Committee Webinar on Mediation Analysis.
5. **Valente, M. J.** (2021, April). *Introduction to causal mediation analysis*. Invited workshop presented (virtually) at the Western Psychological Association (WPA) Annual Meeting.
4. MacKinnon, D. P. & **Valente, M. J.** (2020, February). *Modern Mediation Analysis Workshop* presented at Miller School of Medicine, University of Miami, Miami, FL.
3. MacKinnon, D. P. & **Valente, M. J.** (2020, February). *Modern Mediation Analysis Workshop* presented at University of Miami, Coral Gables, FL.
2. MacKinnon, D. P., **Valente M. J.**, Gonzalez, O., Miočević, M. (2017, May). *Bayesian Causal Mediation Analysis Workshop* presented at the 26th Annual Meeting of the Society for Prevention Research, Washington, DC.
1. MacKinnon, D. P., **Valente M. J.**, Gonzalez, O., Mazza, G., & O'Rourke, H. (2016, May). *Modern Mediation Analysis Workshop* presented at the 25th Annual Meeting of the Society for Prevention Research, Washington, DC.

Presentations

* Student co-author

46. Moeyaert, M., Fingerhut, J., Miočević, M., **Valente, M.**, & Yan, P. (April, 2025). *Systematic Review of Single-Case Designs to Identify Mediator Characteristics*. Paper presented at the American Education Research Association (AERA) Conference, Denver, CO.
45. Moeyaert, M., **Valente, M.**, Miočević, M., & Maiz García, S. I. (April, 2025). *Synthesis of single-case design mediation effects using two-stage multilevel modeling*. Paper presented at the American Education Research Association (AERA) Conference, Denver, CO.

44. Alvarez, K., Buckley, P. R., Bradshaw, C., Lea, C., Lozano, A., **Valente, M. J.**, Parker, M. SPR standards of evidence task force III (2025, May). In C. Berkel & S. Grant (Chairs) *SPR Standards of Evidence Task Force III*. Organized symposium conducted at the meeting of the Society for Prevention Research, Seattle, Washington.

43. *Pang, J., & **Valente, M. J.** (2025, February). *Estimating causal mediation effects in single-case experimental designs: A web-based application*. Poster presented at the 2025 University of South Florida Health Research Day, Tampa, FL, United States of America.

42. *Cao, B., **Valente, M. J.**, & Rijnhart, J. J. M. (2025, February). *Misspecification of regression models with a ratio term as an independent variable can result in inflated type I error rates*. Poster presented at the 2025 University of South Florida Health Research Day, Tampa, FL, United States of America.

41. *Guevarra, P., *Rizzuto, S., *Rabbers, A., Howard, A. M., **Valente, M. J.**, & Rijnhart, J. J. M. (2025, February). *Assessment of the methodological quality of systematic reviews of observational epidemiologic studies: an umbrella review*. Poster presented at the 2025 University of South Florida Health Research Day, Tampa, FL, United States of America.

40. **Valente, M. J.**, *Pang, J., & *Cao, B. (2024, September). A simulation-based method for estimating moderated causal mediation effects. Paper presented at the 2024 Mediation Research Days Conference, Montreal, CA.

39. Berkel, C., Grant, S., Axford, N., Alvarez, K., Bradshaw, C., Buckley, P. R., Lea, C., Lozano, A., Lyons, K., Parker, M., Schneider, D., & **Valente, M. J.** (2024, September). Updating the Society for Prevention Research (SPR) standards of evidence. Paper presented at the meeting of the European Society for Prevention Research, Cremona, Italy.

38. Alvarez, K., Buckley, P. R., Bradshaw, C., Lea, C., Lozano, A., **Valente, M. J.**, Parker, M. SPR standards of evidence task force III (2024, May). In C. Berkel & S. Grant (Chairs) *SPR Standards of Evidence Task Force III*. Organized symposium conducted at the meeting of the Society for Prevention Research, Washington DC.

37. **Valente, M. J.**, *Pang, J., & Rijnhart, J. J. M. (2024, May). Causal mediation methods for N-of-1 interrupted time series designs. In S. Xu (Chair), *Methods to Examine Mediation in Multilevel, Continuous, and Interrupted Time series Studies*. Organized symposium conducted at the meeting of the Society for Prevention Research, Washington DC.

36. *Pang, J., Chen, H., & **Valente, M. J.** (2024, March). *Evaluation of statistical methods for estimating intervention effects in interrupted time series*. Poster presented at the 2024 University of South Florida Health Research Day, Tampa, FL, United States of America.

35. Rijnhart, J. J. M., & **Valente, M. J.** (2023, June). Parallel multiple mediator models may lead to wrong conclusions on the relative importance of mediators when mediators are causally ordered. In J.J.M. Rijnhart (Chair), *Abstract of Distinction: Innovative Methods for Identifying Health Inequities*. Organized symposium conducted at the meeting of the Society for Prevention Research, Washington DC.

34. **Valente, M. J.**, & Rijnhart, J. J. M. (2023, June). A simulation-based approach for estimating moderated treatment effects in health disparities research. In J.J.M. Rijnhart (Chair), *Abstract of Distinction: Innovative Methods for Identifying Health Inequities*. Organized symposium conducted at the meeting of the Society for Prevention Research, Washington DC.

33. *Frederick, J., Ng., M. Y., **Valente, M. J.**, Venturo-Conerly, K., & Weisz, J.R. (2023, November). *What CBT modules work best for whom? Identifying subgroups of depressed youths by their differential response to specific modules* Poster presented at the Association for Behavioral and Cognitive Therapies Convention, Seattle, WA.

32. *Taskin, T., Roncancio, A. M., **Valente, M. J.**, Sheehan, D. M., Ibañez, G., Rahman, A., Thompson, E. L. (2023, April). *Cancer fatalism is associated with HPV vaccine uptake among Hispanic emerging adults in the US*. International Papillomavirus Conference, Washington DC.

31. *Akbar, S., Hayes, T., **Valente, M. J.**, McMakin, D. (2023, March). *Targeted sleep enhancement to address residual anxiety symptoms in peri-adolescents previously treated for anxiety*. Society for Research in Child Development 2023 Biennial Meeting, Salt Lake City, Utah.

30. *Gillenson, C., **Valente, M. J.**, Hagan, M., Mac-Niven, A. C., Bagner, D. (2023, March). *Impact of a brief parenting intervention on parent and infant imitation*. Society for Research in Child Development 2023 Biennial Meeting, Salt Lake City, Utah.

29. **Valente, M. J.**, Rijnhart, J. J. M., Smyth, H. L., Muniz, F. B., MacKinnon, D. P. (2023, February). *Causal mediation programs in R, Mplus, SAS, SPSS, and Stata*. Conference for Statistical Practice. San Francisco, CA.

28. *Akbar, S. A., **Valente, M. J.**, Freitag, J., McMakin, D. L. (2023, February). *Treating anxiety through improving sleep: a single case time-series analysis*. Miami International Child & Adolescent Mental Health Conference, Miami, FL.

27. *Zheng, B. & **Valente, M. J.** (2022, April). Evaluation of goodness-of-fit test in random intercept cross-lagged panel model. Paper presented at the Midwest Political Science Association Annual Meeting, Chicago, IL.

26. MacKinnon, D. P., **Valente, M. J.**, & Alvarez-Bartolo, D. (2021, August). Some applications of causal mediation analysis and discrepancies with traditional mediation analysis. Paper presented at the Joint Statistical Meeting of the American Statistical Association, Virtual Meeting.

25. Rijnhart, J. J. M., **Valente, M. J.**, Smyth, H. L., & MacKinnon, D. P. (2021, July). Correspondence between causal and traditional mediation analysis for models with binary mediator and outcome variables. Paper presented at the 9th European Congress of Methodology (EAM), Valencia, Spain (online).

24. **Valente, M. J.** (2021, June). Treatment-mediator interactions in longitudinal mediation models. In O. Gonzalez and **M. J. Valente** (Chairs), *Advances in Mediation and Prevention Science*. Organized symposium conducted at the virtual meeting of the Society for Prevention Research, Washington DC.

23. MacKinnon, D. P. & **Valente, M. J.** (2020, July). *Correspondence between Traditional and Potential Outcome Mediation Models*. In D. Coffman (Chair), *Complexities of Causal Mediation Analysis in Prevention Research: Conceptual and Study Design Considerations*. Organized symposium (online) conducted at the meeting of the Society for Prevention Research, Washington DC.

22. Fosco, W., **Valente, M. J.**, *Cristello, J., *Fallah-Sohy, N., *Hartmann, S., & Trucco, E. (2020, July). *Environmental Predictors of Problematic Alcohol Use in Adulthood: A Twin Study*. In N. Riggs (Chair), *SPR Sloboda and Bukoski Cup*. Organized symposium (online) conducted at the meeting of the Society for Prevention Research, Washington DC.

21. *Frederick, J. Ng, M. Y., & **Valente, M. J.** (2020, February). *Specific Modules and Specific Outcomes: an Interrupted Time Series Analysis Examining Internalizing Symptoms and MATCH Modules*. Poster presented at the Miami International Child & Adolescent Mental Health Conference, Miami, FL.

20. **Valente, M. J.** & MacKinnon, D. P. (2019, October). *A potential outcomes perspective on treatment-by-mediator interactions in a longitudinal mediation model*. In P. E. Shrout (Chair) Modeling Mediation Processes in Longitudinal Data. Organized symposium conducted at the annual meeting of the Society for Experimental Social Psychologists (SESP), Toronto, CA.

19. MacKinnon, D. P. & **Valente, M. J.** (2019, October). *Benchmark validation of a potential outcomes model for two mediators*. Paper presented at the annual meeting of the Society for Experimental Multivariate Psychology, Baltimore, MD.

18. **Valente, M. J.** (2019, August). *Causal inference in longitudinal data with time-varying confounders*. In D. P. MacKinnon (Chair) Just cause: Revolutionary Causal Inference in Psychology. Organized symposium conducted at the annual meeting of the American Psychological Association (APA), Chicago, IL.

17. **Valente, M. J.** (2019, June). *Performance of traditional and potential outcomes framework methods for estimating mediation in the pretest-posttest control group design*. Paper presented at the annual Dutch Epidemiology Conference (WEON), Groningen, the Netherlands.

16. Rijnhart, J. J. M. & **Valente, M. J.**, & D. P. MacKinnon (2019, June). *Total effect decomposition in mediation analysis with a continuous mediator and a binary outcome*. Paper presented at the annual Dutch Epidemiology Conference (WEON), Groningen, The Netherlands.

15. **Valente, M. J.**, Rijnhart, J. J. M., & MacKinnon, D. P. (2019, May). *Causal direct and indirect effects: The link between traditional logistic regression and the potential outcomes framework for binary outcomes*. In **M. J. Valente** and O. Gonzalez (Chairs), *Advanced Mediation Analysis*. Organized symposium conducted at the meeting of the Society for Prevention Research, Washington DC.

14. Rijnhart, J. J. M., **Valente, M. J.**, & MacKinnon, D. P. (2019, May). *Total effect decomposition in mediation analysis with a binary outcome*. In **M.J.Valente** and O. Gonzalez (Chairs), *Advanced Mediation Analysis*. Organized symposium conducted at the meeting of the Society for Prevention Research, Washington DC.

13. Gonzalez, O., & **Valente, M. J.** (2019, May). *Potential contributions of machine learning to statistical mediation*. In **M. J. Valente** and O. Gonzalez (Chairs), *Advanced Mediation Analysis*. Organized symposium conducted at the meeting of the Society for Prevention Research, Washington DC.

12. **Valente, M. J.**, & MacKinnon, D. P. (2018, May). *Comparison and application of traditional and potential outcomes framework methods for estimating mediated effects in a three-wave mediation model*. In H.J. Kim (Chair), *Abstract of Distinction: Leveraging Modern Mediation Analysis in Prevention Science*. Organized poster forum conducted at the meeting of the Society for Prevention Research, Washington DC.

11. MacKinnon, D. P., **Valente, M. J.**, Gonzalez, O., & Mazza, G. L. (2017, October). *Mediated interaction in the potential outcomes and traditional mediation models*. Paper presented at the annual meeting of the Society for Experimental Multivariate Psychology, Minnesota, MN.

10. **Valente, M. J.**, & MacKinnon, D. P. (2017, May). *Comparison of traditional regression and interventional analogues for a three-wave autoregressive mediation model*. Paper presented at the 25th annual meeting of the Society for Prevention Research, Washington, DC.

9. Gonzalez, O., **Valente, M. J.**, & MacKinnon, D. P. (2017, May). *Longitudinal measurement invariance in a two-wave mediation model*. Paper presented at the 25th annual meeting of the Society for Prevention Research, Washington, DC.
8. **Valente, M. J.**, & MacKinnon, D. P. (2016, May). *Inverse-propensity weighting approaches for estimating the mediated effect in pretest-posttest control group design*. Presented at the 24th annual meeting of the Society for Prevention Research, San Francisco, CA.
7. MacKinnon, D. P., **Valente, M. J.**, & Wurpts, I. C (2015, October). *The centrality of the intervention by mediator interaction in causal mediation analysis*. Presented at the annual meeting of the Society for Multivariate Experimental Psychology, Redondo Beach, CA.
6. **Valente, M. J.**, MacKinnon, D.P., & Suk, H.W. (2015, September). *Functional Data Approach to Longitudinal Modeling in the National Hockey League*. Presented at the 2015 New England Symposium on Statistics in Sports, Cambridge, MA.
5. MacKinnon, D. P., & **Valente, M. J.** (2015, May). *Causal Mediation Approaches for the Pretest-Posttest Control Group Design in Prevention Research*. Presented at the 23rd annual meeting of the Society for Prevention Research, Washington, DC.
4. MacKinnon, D. P., Wurpts, I. C., & **Valente, M. J.** (2014, August). *Imagery and memory as substantive validation of mediation analysis*. Poster presented at 122nd annual convention of the American Psychological Association, Washington, DC.
3. **Valente, M. J.**, & MacKinnon, D. P. (2014, May). *Estimating the mediated effect in pretest-posttest control group designs*. In A. N. Baraldi (Chair), *Advanced methods for mediation analysis in prevention studies*. Poster symposium conducted at the 22nd annual meeting of the Society for Prevention Research, Washington, DC.
2. MacKinnon, D. P., & **Valente, M. J.** (2013, January). *Mediation from multilevel to structural equation modeling*. Invited presentation at the Analysis of Child Growth Trajectories workshop, Center for Advanced Studies, Ludwig Maximilians Universitat Munchen, Munich, Germany.
1. **Valente, M. J.**, & Leone, C. (2011, January). *Self-generated attitude change and intergroup relations: Some effects of thoughts and cross-categorization*. Presented at the Annual Meeting of the Society of Personality and Social Psychology, San Antonio, TX.

WORKS IN PROGRESS

Papers submitted to journals for publication

* Student co-author

5. *Davis, I.S., *Aks, I. R., Somers, J. A., *Schulze, E. M., Patel, H., *Leitz, L., **Valente, M. J.**, & Pelham, W. E. III (under review). *Confounding in non-experimental studies of caregiver warmth: The problem and potential solutions*.
4. *Pang, J., **Valente, M. J.**, Kim, K., & Lu, X. (under review). *Medelian randomization analyses do not support a causal effect of Toxoplasma gondii infection on psychopathology*.
3. Wei, W., **Valente, M. J.**, & Chen, H. (under review). *Moderation testing for equivalence in clinical trials*.
2. *Pang, J., Chen, H., & **Valente, M. J.**, (under review). *Evaluation of statistical methods for estimating intervention effects in interrupted time series*.

1. Rijnhart, J.J.M., & **Valente, M. J.** (under review). *Choice between single or multiple mediator model impacts the size and interpretation of mediation effect estimates when mediators are statistically dependent or causally ordered.*

TEACHING EXPERIENCE

University of South Florida – Graduate Courses Taught

Epidemiology Methods I
 Data Management in SAS for Public Health Researchers
 Biostatistics II

Florida International University – Graduate Courses Taught

Multivariate Statistics for Applied Psychological Research
 Quasi-Experiments and Causal Inference
 Statistical Mediation Analysis

Arizona State University – Teaching Assistantships

Analysis of Variance
 Regression Analysis for Applied Psychological Research
 Multivariate Statistics for Applied Psychological Research
 Structural Equation Modeling

OTHER PROFESSIONAL ACTIVITIES AND PUBLIC SERVICE

Mentorship

Doctoral students

Student: Jinyong Pang

Status: 7th year PhD student in Biostatistics

Student: Biwei Cao

Status: 3rd year PhD student in Biostatistics

Student: Hyemin Cho

Status: 1st year PhD student in Biostatistics

Post-doctoral students

Student: Dr. Bang Zheng

Status: Completed

Dissertation committee membership:

Student: Amr Ebied

Program: Epidemiology

Dissertation Title: Age-related diseases of inflammation (inflammaging) as causes of death in patients with hematological malignancies: A population-based analysis

Status: Ongoing.

Student: Weiliang Cen

Program: Biostatistics and Data Science

Dissertation Title: Statistical Challenges and Simulation Results for Pilot Clinical Trials.

Status: Completed.

Student: Michaela McGuire

Program: Epidemiology

Dissertation Title: The Non-Malarial Effects of Malaria Chemoprevention.

Status: Completed.

Student: Rashida Jones
Program: Epidemiology
Dissertation Title: The Barriers and Facilitators of Maternal Influenza Vaccination.
Status: Completed.

Student: Jennifer Frederick
Program: Psychology
Dissertation Title: Mechanisms to Improve the Efficacy of Psychotherapy for Youth with Internalizing Disorders.
Status: Completed.

Student: Tanjila Taskin
Program: Epidemiology
Dissertation Title: Intrapersonal, Social, and Cultural Determinants of HPV Vaccine Uptake among Emerging Hispanic Adults
Status: Completed.

Master thesis committee membership:

Student: Yong Zhang
Program: Epidemiology
Thesis Title: Not yet specified.
Status: Ongoing.

Professional Service

Committees and Conference Activities	
Symposium Organizer and Moderator (C. Hilly, M. J. Valente , & M. Halvorson) for ECPN Session II: Mixed Methods Research: Effective Integration of Qualitative and Quantitative Methodology. Organized symposium conducted at the meeting of the Society for Prevention Research, Washington DC.	2024
Society for Prevention Research Early Career Representative on the Standards of Evidence Task Force	2024 – ongoing
Steering Committee member of Society for Prevention Research (SPR) Early Career Prevention Network (ECPN)	2023 - ongoing
Ad-hoc Grant reviews	
National Science Foundation Early Career Award	2023
Scientific Quinquennial Review for UK Research and Innovation Medical Research Council	2022
Book Reviews	
Bayesian Statistics for social science researchers	2023
Editorial Board	
Multivariate Behavioral Research	2024 - ongoing
Quantitative Psychology and Measurement – specialty section of Frontiers in Psychology and Frontiers in Applied Mathematics and Statistics	2020 - ongoing
Ad-hoc Journal Reviews	
Psychological Methods	
Multivariate Behavioral Research	
Structural Equation Modeling: An Interdisciplinary Journal	
Advances in Methods and Practices in Psychological Science	

Prevention Science
 Psychometrika
 Statistical Methods in Medical Research
 BioMed Central (BMC) Medical Research Methodology
 Educational and Psychological Measurement
 Journal of Clinical Psychology
 Sage Open
 Evaluation and the Health Professions
 Nature Communications
 Journal of Business Venturing
 Journal of Child and Family Studies
 Perspectives on Psychological Science
 Quality and Quantity
 International Journal of Biostatistics
 International Journal of Epidemiology
 Journal of the Royal Statistical Society Series B
 Clinical Child and Family Psychology Review
 American Journal of Drug and Alcohol Abuse
 Annals of Epidemiology

Organization Memberships

Society for Prevention Research (SPR)
 American Statistical Association (ASA)
 American Psychological Association (APA)

Consulting

Estimating Mediated Effects in Prevention Studies (R37DA09757)
 PI: MacKinnon, David P.
 Role: Consultant
 Funding Agency: National Institutes of Health
 Start and End Dates: 6/1/20 – 5/31/25

College and Department Service

Member of Research Committee	Fall 2025 – ongoing
Concentration Lead for Applied Biostatistics MPH program	Fall 2025 – ongoing
Interim Chair Search Committee Member	Fall 2024
COPH STEM Task force	Spring 2024 - ongoing
Application reviewer for Delta Omega National Honorary Society	Fall 2023 - ongoing
Faculty Ambassador for Biostatistics	Spring 2023 - ongoing
Concentration in Applied Biostatistics	
Presentation Judge for USF Graduate Student Research Symposium	Spring 2023
Poster Judge for USF Health Research Day	Spring 2023
Dissertation Status Evaluation Committee (FIU)	Fall 2020 – Spring 2022
Member of search committee for assistant professor hire in the department of biostatistics (FIU)	Fall 2021 – Spring 2022
Mentor for Training Program in Adolescent Substance Use Disorders and Co-occurring Mental and Behavioral Disorders (Institutional National Research Service Award T32) (FIU)	Summer 2019 – Fall 2022