DANIEL MCNEISH

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ACADEMIC POSITIONS

Aug 2023 –	Full Professor (with tenure)
Aug 2020 – July 2023	Associate Professor (with tenure)
Aug 2017 – July 2020	Assistant Professor
	Department of Psychology, Quantitative Area
	Arizona State University, USA
Aug 2017 – June 2019	Faculty Affiliate
Sept 2016 – July 2017	Research Scientist
	Center for Developmental Science
	University of North Carolina, Chapel Hill, USA
	Supervisors: Daniel Bauer, Patrick Curran, Andrea Hussong
Jan 2016 – Aug 2016	Assistant Professor (permanent position)
	Department of Methodology and Statistics
	Utrecht University, the Netherlands

EDUCATION

Aug 2013 – Dec 2015	Ph.D., Measurement & Statistics
	University of Maryland, College Park, USA
	Advisor: Gregory Hancock
Aug 2011 – May 2013	M.A., Measurement & Statistics
	University of Maryland, College Park, USA
	Advisor: Robert Lissitz
Aug 2009 – May 2011	B.A., Psychology
	Wesleyan University, USA
	Mentor: Steven Stemler

Research

- Total Publications = 138
- Peer-Reviewed Journal Articles = 118
  - 84 methodological, 34 substantive
  - 73 first-authored articles (62%)
  - 34 sole-authored articles (29%)
- Submitted manuscripts = 10 (6 under revision, 4 under first review)
- 17 articles in *Psychological Methods*
  - 15 as first author, most first-author papers since the journal's inception in 1996
- 13 articles in *Multivariate Behavioral Research*
  - 12 as first author, 3rd most first-author papers since the journal's inception in 1966
- 17 federally funded grants and contracts at ASU, 4 as Principal Investigator
- 6 early career research awards, 1 elected society membership
- 4-time *Highly Cited Researcher* in Psychiatry/Psychology (2022-2025), ISI/Web of Science
- 9th most research impact within Social Science Methods in 2024 (top 0.25%) Stanford/Elsevier
  - One of 416 "precocious researchers" to make top 2% < 8 years after first publication
    - One of only 90 to do so with a self-citation rate < 8%
  - 1st in USA across all researchers/fields whose first publication is within the last 10 years
- 99.5th percentile in age-adjusted impact and productivity, Scholar Analytics (PiP-AUC index)
- 9th most productive early career educational psychologist as ranked in Fong et al (2022)
- Google Scholar Citations = 15131, h-index = 47, i-10 index = 89
- Scopus Citations = 9024, h-index = 36

Teaching & Mentoring

- 19 sections of 9 courses taught
  - Graduate = 10 sections, 4 courses
  - Undergraduate = 9 sections, 5 courses
  - At ASU, 13 sections of 5 courses total
- Average ASU graduate course rating = 1.0 / 5.0 (lower is better at ASU)
- Average ASU undergraduate course rating = 1.2 / 5.0 (lower is better at ASU)
- 2 completed PhD advisees
- 2 completed postdocs
- 1 current PhD advisee
- 56 graduate student milestone committees

Service

- 2 associate editorships
  - *Multivariate Behavioral Research, Behavior Research Methods*
- 4 editorial board memberships
  - *Psychological Methods, Organizational Research Methods, Behavior Research Methods,* Multivariate Applications book series
- Ad hoc reviewer at 57 journals

AWARDS & RECOGNITION

International

2024	Early Career Impact Award
	Federation of Associations in Brain and Behavioral Sciences
2023	Distinguished Scientific Award for Early Career Contributions
	American Psychological Association
2022 - 2025	4-time *Highly Cited Researcher* in Psychiatry/Psychology (most papers in top 1%)
	ISI/Clarivate Analytics
2020	Early Career Research Award
	Society for Multivariate Experimental Psychology
2019	Anne Anastasi Early Career Contributions Award
	American Psychological Association, Division 5 (Quant & Qual Methods)
2019	Early Career Award for Statistics (given every 3 years)
	American Educational Research Association, Division D (Methodology)
2018	Rising Star Early Career Award
	Association for Psychological Science
2018	Elected Member (limited to 65 active members worldwide)
	Society for Multivariate Experimental Psychology
2018	Anne Anastasi Dissertation Award
	American Psychological Association, Division 5 (Quant & Qual Methods)

Publications

2024	Commendation Award, *Society for Improving Psychological Science*
2023	Editor's Choice Paper Selection, *Psychological Methods*
2021	Tanaka Award for outstanding paper, *Multivariate Behavioral Research*
2017	Best Paper Prize runner-up, *Journal of Applied Statistics*

Invited Keynotes

2024	14th International Conference on Multilevel Analysis, the Netherlands
	Title: *Measurement in Intensive Longitudinal Data*
2022	Small Sample Size Solutions Conference, the Netherlands
	Title: *Mixture Models for Longitudinal Data with Small Samples*

Institutional

2016	Outstanding Dissertation, University of Maryland
2015	Outstanding Doctoral Student, University of Maryland
2013	Outstanding Master's Student, University of Maryland
2011	Walkley Prize for Excellence in Psychology, Wesleyan University
2011	Dean's List, Wesleyan University

2022-2024	Associate Editor, *Behavior Research Methods*
2020-2021	Consulting Editor, *Behavior Research Methods*
	Impact Factor: 4.6, ranked 1 / 13 in Mathematical Psychology
2020-	Associate Editor, *Multivariate Behavioral Research*
2022-	Section Editor for Software Contributions, *Multivariate Behavioral Research*
	Impact Factor: 5.3, ranked 4 / 115 in Statistics & Probability
2020-	Consulting Editor, *Psychological Methods*
	Impact Factor: 7.6, ranked 10 / 140 in Multidisciplinary Psychology
2020-	Editorial Board, Multivariate Applications Book Series (Routledge)
2017-	Editorial Board, *Organizational Research Methods*
	Impact Factor: 8.9, ranked 6/ 112 in Applied Psychology

PUBLICATIONS

Underline indicates mentored student or post-doc author

Reported 2-year impact factors are from year of publication

In Press (n = 11)

1. **McNeish, D.** (in press). How do psychologists determine whether a measure is good? A quarter-century of scale validation with Hu & Bentler (1999). *Annual Review of Psychology*.
   Impact Factor: 29.4 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

2. **McNeish, D.** (in press). Dynamic measurement invariance cutoffs for two-group fit index differences. *Psychological Methods*.
   Impact Factor: 7.8 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

3. **McNeish, D.** (in press). Missing not at random intensive longitudinal data with dynamic structural equation models. *Psychological Methods*
   Impact Factor: 7.8 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

4. **McNeish, D.** (in press). Dynamic fit index cutoffs for treating Likert items as continuous. *Psychological Methods.*
   Impact Factor: 7.8 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

5. **McNeish, D.** (in press). A practical guide to selecting (and blending) approaches for clustered data: Clustered errors, multilevel models, and fixed effect models. *Psychological Methods.*
   Impact Factor: 7.8 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

6. **McNeish, D.** & <u>Savord, A</u>. (in press). Exploring how many categories are needed to model ordinal intensive longitudinal data as continuous with dynamic structural equation models *Psychological Methods*
   Impact Factor: 7.8 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

7. **McNeish, D.** (in press). A primer on intensive longitudinal psychometrics. *Behavior Research Methods*.
   Impact Factor: 3.9 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

8. **McNeish, D.** (in press). Sensitivity of probit dynamic structural equation models to non-normality of the latent variable assumed to underlie categorical responses. *Structural Equation Modeling.*
   Impact Factor: 3.6 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

9. Oesterle, S., **McNeish, D.**, Guttmannova, K., Skinner, M., Kuklinksi, M.R., & Hawkins, J.D. (in press). Young adults' cannabis environments and their cannabis use and misuse. *Journal of the Society for Social Work and Research*.
   Impact Factor: 2.0 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

10. Coffman, J.L., <u>Westover, A.E.</u>, Grammer, J.K., **McNeish, D.**, & Ornstein, P.A. (in press). Deliberate memory strategy development: The interplay of children's self-regulated learning abilities and teachers' cognitive processing language. *Journal of Applied Research in Memory and Cognition*
    Impact Factor: 2.6 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

11. English, D*.,* Smith, J.C., Scott-Walker, L., Chavez, E., Reid, M., ... **McNeish, D.**, Bowleg, L. (in press). Examining a multicomponent health promotion intervention among black same gender loving men in southern ending the HIV epidemic in the U.S. jurisdictions: A randomized controlled trial. *BMC Public Health.*
    Impact Factor: 3.6 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

2025 (*n* = 11)

12. **McNeish, D.** & Mackinnon, D.P. (2025). Intensive longitudinal mediation in Mplus. *Psychological Methods, 30*(2), 393-415.
    Impact Factor: 7.8 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

13. **McNeish, D.** & Dumas, D.G. (2025). Reliability representativeness: How well does coefficient alpha summarize reliability across the score distribution? *Behavior Research Methods, 57,* 93.
    Impact Factor: 3.9 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

14. **McNeish, D.** (2025). Less heuristic approximate local fit evaluation in structural equation models. *Structural Equation Modeling, 32*(4), 590-605.
    Impact Factor: 3.6 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

15. **McNeish, D.** & Matta, T.H. (2025). SRMR for models with covariates. *Psychometrika*, *90* (1), 24-46.
    Impact Factor: 3.1 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

16. Plaitano, E.G., **McNeish, D.**, Bartels, S., Bell, K., Dallery, J., Garbinski, M., ... Marsch, L.A. (2025). Adherence to a digital therapeutic mediates the relationship between momentary self-regulation and health risk behaviors. *Frontiers in Digital Health, 7,* 1467772.
    Impact Factor: 3.8 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

17. Liu, X. & **McNeish, D.** (2025). Optimal number of replications for obtaining stable dynamic fit index cutoffs. *Educational and Psychological Measurement. 85*(3), 539-564.
    Impact Factor: 2.3 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

18. Levy, R. & **McNeish, D.** (2025). Measurement and uncertainty preserving parametric modeling for continuous latent variables with discrete indicators and external variables. *Journal of Educational and Behavioral Statistics, 50* (2), 239-271.
    Impact Factor: 1.7 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

19. Miller, A.H., Espinas, D.R., **McNeish, D.**, & Barnes, M.A. (2025). Dosage response in intensive math interventions for early elementary students with or at-risk for mathematics difficulties. *Educational Psychology Review*, *37*, 91.
    Impact Factor: 8.8 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

20. Vornlocher, C., Wormley, A.S., **McNeish, D.**, Cole, S., Daviglus, M.L., Elliassen, A.H., Kanaya, A.M., Kent, B.V, & Shields, A.E. (2025). Who turns to god, and how? Religious and spiritual identity differentially predict religious coping strategy use in the study on stress, spirituality, and health. *International Journal for the Psychology of Religion, 35*(4)*, 232-246.
    Impact Factor: 1.5 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

21. Ahn, L.H., Kivlighan, D.M., Hill, C.E., & **McNeish, D.** (2025). Dyadic working alliance, therapist insight skills, and client outcomes: Longitudinal mediation analyses. *Psychotherapy, 62* (2), 180-190.
    Impact Factor: 3.9 [2024 Journal Citation Reports® (Thomson Reuters, 2025)]

22. Teuber, Z., Botes, E., Reiter, J. Greiff, S., Anuola, K, & **McNeish, D.** (2025). Dynamic patterns of parental burnout and genuine expression during the festive season: A dynamic structural equation modeling approach. *Communications Psychology*, *3*, 167.
    Impact Factor: New Journal, no impact factor yet

2024 (*n* = 5)

23. **McNeish, D.**, Dumas, D., Dong, Y., & Duellberg, D. (2024). Promoting inclusive recruiting & selection into military training schools: Admission waivers vs. retesting. *Journal of Applied Psychology, 109* (3), 415-436.
    Impact Factor: 9.9 [2023 Journal Citation Reports® (Thomson Reuters, 2024)]

24. **McNeish, D.,** Somers, J.A., & Savord, A. (2024). Dynamic structural equation models with binary and ordinal outcomes in Mplus. *Behavior Research Methods, 56* (3), 1506-1532.
    Impact Factor: 4.6 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

25. **McNeish, D.** (2024). Practical implications of sum scores being psychometrics' greatest accomplishment. *Psychometrika*, *89* (4), 1148-1169.
    Impact Factor: 2.9 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

26. **McNeish, D.** & Wolf, M.G. (2024). Direct discrepancy dynamic fit index cutoffs for arbitrary covariance structure models. *Structural Equation Modeling*, *31* (5), 835-862.
    Impact Factor: 2.5 [2023 Journal Citation Reports® (Thomson Reuters, 2024)]

27. **McNeish, D.** & Manapat, P.D. (2024). Dynamic fit index cutoffs for hierarchical and second-order factor models. *Structural Equation Modeling, 31* (1), 27-47.
    Impact Factor: 2.5 [2023 Journal Citation Reports® (Thomson Reuters, 2024)]

2023 (*n* = 16)

28. **McNeish, D.** (2023). Dynamic fit index cutoffs for factor analysis with Likert-type, ordinal, or binary responses. *American Psychologist, 79* (9), 1061-1075.
    Impact Factor: 16.4 [2022 Journal Citation Reports® (Thomson Reuters, 2023)

29. **McNeish, D.** & Wolf, M.G. (2023). Dynamic fit index cutoffs for confirmatory factor analysis models. *Psychological Methods, 28* (1), 61-88.
    ** Paper received Commendation Award from *Society for Improving Psychological Science*
    Impact Factor: 10.9 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

30. **McNeish, D.**, Bauer, D.J., Dumas, D., Clements, D.H., Cohen, J.R., Lin, W., Sarama, J., & Sheridan, M.A. (2023). Modeling individual differences in the timing of change onset and offset. *Psychological Methods*, *28* (2), 401-421.
    **Paper selected as an *APA Editor's Choice Selection*
    Impact Factor: 10.9 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

31. **McNeish, D.**, Harring, J.R., & Bauer, D.J. (2023). Nonconvergence, covariance constraints, and class enumeration in growth mixture models. *Psychological Methods, 28* (4), 962-992.

Impact Factor: 10.9 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

32. **McNeish, D.** & Wolf, M.G. (2023). Dynamic fit cutoffs for one-factor models. *Behavior Research Methods*, *55* (3), 1157-1174.
    Impact Factor: 6.0 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

33. **McNeish, D.** (2023). Psychometric properties of sum scores and factor scores differ even when their correlation is 0.98: A response to Widaman and Revelle. *Behavior Research Methods*, *55* (8), 4269-4290.
    Impact Factor: 6.0 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

34. **McNeish, D.**, Peña, A., Vander Wyst, K.B., Ayers, S.L., Olson, M.L., & Shaibi, G.Q. (2023). Facilitating growth mixture model convergence in preventive interventions. *Prevention Science, 24* (3), 505-516. [invited special issue contribution].
    Impact Factor: 3.9 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

35. **McNeish, D.** (2023). Generalizability of dynamic fit index, equivalence testing, and Hu & Bentler cutoffs for evaluating fit in factor analysis. *Multivariate Behavioral Research, 58* (1), 195-219. [invited early career award address]
    Impact Factor: 3.1 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

36. **McNeish, D.**, Harring, J.R., & Dumas, D. (2023). A multilevel structured latent curve model for disaggregating student and school contributions to learning. *Statistical Methods & Applications, 32,* 545-575.
    Impact Factor: 1.2 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

37. Levy, R. & **McNeish, D.** (2023). Alternative perspectives on Bayesian inference and their implications for data analysis. *Psychological Methods, 28* (3), 719-739.
    Impact Factor: 10.9 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

38. Savord, A., **McNeish, D.**, Iida, M., Quiroz, S., & Ha, T. (2023). Fitting the longitudinal actor-partner interdependence model as a dynamic structural equation model. *Structural Equation Modeling, 30* (2), 296-314.
    Impact Factor: 6.2 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

39. Wolf, M.G. & **McNeish, D.** (2023). dynamic: An R package for deriving dynamic fit index cutoffs for factor analysis. *Multivariate Behavioral Research*, 58 (1), 189-194.
    Impact Factor: 3.1 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

40. Dumas, D., Dong, Y., & **McNeish, D.** (2023). How fair is my test?: A ratio coefficient to help represent consequential validity. *European Journal of Psychological Assessment, 39* (6), 416-423.

Impact Factor: 2.9 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

41. Pandika, D., Guttmannova, K., Skinner, M.L., Sanchez-Rodriguez, M., **McNeish, D.**, Morales, L.S., & Oesterle, S. (2023). Tobacco use patterns from adolescence to young adulthood among Latinx youth from rural communities. *Journal of Adolescent Health, 73* (4), 761-768.
   Impact Factor: 7.6 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

42. Perez, M., Winstone, L.K., Hernandez, J.C., Curci, S.G., **McNeish, D.**, & Luecken, L.J. (2023). Association of BMI trajectories with cardiometabolic risk at age 7.5 years among low-income Mexican American children. *Pediatric Research, 93* (5), 1233-1238.
   Impact Factor: 3.6 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

43. English, D., Smith, J.C., Scott-Walker, L., Lopez, F.G., Morris, M., Reid, M., … **McNeish, D.** (2023). Feasibility, acceptability, and preliminary HIV Care and psychological health effects of THRIVE 365. *JAIDS: Journal of Acquired Immunodeficiency Syndrome, 93* (1), 55-63.
   Impact Factor: 3.8 [2022 Journal Citation Reports® (Thomson Reuters, 2023)]

2022 ($n = 8$)

44. **McNeish, D.** & Bauer, D.J. (2022). Reducing incidence of nonpositive definite covariance matrices in mixed effect models. *Multivariate Behavioral Research, 57* (2-3), 318-340.
   Impact Factor: 5.4 [2021 Journal Citation Reports® (Thomson Reuters, 2022)]

45. **McNeish, D.** (2022). Limitations of the sum-and-alpha approach to measurement in behavioral research. *Policy Insights from the Brain and Behavioral Sciences*, *9* (2), 196-203. [invited paper]
   Impact Factor: 3.9 [2021 CiteScore (Scopus, 2022)]

46. **McNeish, D.**, Dumas, D., Torre, D., & Rice, N. (2022). Modelling time to maximum competency in medical student progress tests. *Journal of the Royal Statistical Society, Series A, 185* (4), 2007-2034.
   Impact Factor: 2.2 [2021 Journal Citation Reports® (Thomson Reuters, 2022)]

47. Somers, J.A., Luecken, L.J., **McNeish, D.,** Lemery-Chalfant, K., & Spinrad, T.L. (2022). Second-by-second infant and mother emotion regulation and coregulation processes. *Development & Psychopathology, 34* (5)*,* 1887-1900.
   Impact Factor: 4.2 [2021 Journal Citation Reports® (Thomson Reuters, 2022)]

48. Blake, A.J., **McNeish, D.**, & Chassin, L. (2022). The influence of parent-child separation on young-adult substance use disorder: Measurement and moderation as sources of heterogeneity. *Journal of Family Psychology, 36* (2), 159-169.
   Impact Factor: 3.3 [2021 Journal Citation Reports® (Thomson Reuters, 2022)]

49. Roberts, G.J., Dumas, D., **McNeish, D.**, & Cote, B. (2022). Understanding the dynamics of reading intervention dosage response: A nonlinear meta-analysis. *Review of Educational Research, 92* (2), 209-248.
   Impact Factor: 13.6 [2021 Journal Citation Reports® (Thomson Reuters, 2022)]

50. Aitken, A.A., Graham, S., & **McNeish, D.** (2022). The effects of choice vs preference on writing and the mediating role of perceived competence. *Journal of Educational Psychology, 114* (8), 1844-1865.
   Impact Factor: 6.7 [2021 Journal Citation Reports® (Thomson Reuters, 2022)]

51. Cole, V.T., Hussong, A.M., **McNeish, D.**, Ennett, S.T., Rothenberg, W.A., Gottfredson, N.C., & Faris, R.W. (2022). The self-medication pathway to smoking for adolescents: interactions between depressive symptoms, coping motives for smoking, and social standing. *Journal of Studies on Alcohol and Drugs,* 83, 420-429.
   Impact Factor: 2.6 [2021 Journal Citation Reports® (Thomson Reuters, 2022)]

2021 (*n* = 5)

52. **McNeish, D.** (2021). Location-scale models for heterogeneous variances as multilevel SEMs. O*rganizational Research Methods, 24,* 630-653.
   Impact Factor: 9.4 [2020 Journal Citation Reports® (Thomson Reuters, 2021)]

53. **McNeish, D.**, Mackinnon, D.P., Marsch, L.A., & Poldrack, R.A. (2021). Measurement in intensive longitudinal data. *Structural Equation Modeling, 28,* 807-822.
   Impact Factor: 6.2 [2020 Journal Citation Reports® (Thomson Reuters, 2021)]

54. **McNeish, D.** & Harring, J.R. (2021). Improving convergence in growth mixture models without covariance structure constraints. *Statistical Methods in Medical Research, 30,* 994-1012.
   Impact Factor: 3.0 [2020 Journal Citation Reports® (Thomson Reuters, 2021)]

55. **McNeish, D**. & Dumas, D. (2021). A seasonal dynamic measurement model for summer learning loss. *Journal of the Royal Statistical Society, Series A, 184*, 616-642.
   Impact Factor: 2.5 [2020 Journal Citation Reports® (Thomson Reuters, 2021)]

56. Silverman, R.D., **McNeish, D.**, Ritchey, K.D., & Speece, D.L. (2021). Early screening for decoding and language-related reading difficulties in 1st and 3rd grade. *Assessment for Effective Intervention, 46,* 99-109.
   Impact Factor: 2.0 [2019 CiteScore (Scopus, 2021)]

2020 (*n* = 12)

57. **McNeish, D.** & Hamaker, E.L. (2020). A primer on two-level dynamic structural equation modeling for intensive longitudinal data in Mplus. *Psychological Methods, 25*, 610-635.
    Impact Factor: 8.4 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

58. **McNeish, D.** & Wolf, M.G. (2020). Thinking twice about sum scores. *Behavior Research Methods, 52,* 2287-2305.
    Impact Factor: 4.4 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

59. **McNeish, D.** & Harring, J.R. (2020). Covariance pattern mixture models: Eliminating random effects to improve convergence and performance. *Behavior Research Methods, 52,* 947-979.
    Impact Factor: 4.4 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

60. **McNeish, D.** & Matta, T.H. (2020). Flexible treatment of time-varying covariates with time unstructured data. *Structural Equation Modeling, 27,* 298-317.
    Impact Factor: 3.6 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

61. **McNeish, D.**, Dumas, D.G., & Grimm, K.J. (2020). Estimating new quantities from longitudinal test scores to improve forecasts of future performance. *Multivariate Behavioral Research, 55*, 894-909.
    ** *Paper won Tanaka Award for best paper published in MBR in 2020*
    Impact Factor: 2.8 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

62. **McNeish, D.** (2020). Should we use F-tests for model fit instead of chi-square in over-identified structural equation models?. *Organizational Research Methods, 23, 487-510.*
    Impact Factor: 5.7 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

63. **McNeish, D.** (2020). Relaxing the proportionality assumption in latent basis models for nonlinear growth. *Structural Equation Modeling, 27,* 817-824.
    Impact Factor: 3.6 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

64. Dumas, D.G., **McNeish, D.**, & Greene, J.A. (2020). Dynamic measurement: A theoretical-psychometric paradigm for modern educational psychology. *Educational Psychologist, 55*, 88-105.
    Impact Factor: 4.5 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

65. Smid, S.C., **McNeish, D.**, Miočević, M., & van de Schoot, A.G.J. (2020). Bayesian versus frequentist estimation for structural equation models in small sample contexts: A systematic review. *Structural Equation Modeling, 27,* 131-161.
    Impact Factor: 3.6 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

66. Peña, A., **McNeish, D.**, Ayers, S.L., Olson, M.L., Vander Wyst, K.B., Williams, A.N., & Shaibi, G.Q. (2020). Response heterogeneity to lifestyle intervention among Latino adolescents. *Pediatric Diabetes, 21*, 1430-1436.
    Impact Factor: 3.1 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

67. Hussong, A.M., Ennett, S.T., **McNeish, D.**, Cole, V., Gottfredson, N., Rothenberg, W.A., & Farris, R.J. (2020). Social network interactions as mediators of depression-substance use associations across adolescence. *Development and Psychopathology, 32,* 615-630.
    Impact Factor: 3.4 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

68. Somers, J.A., Kerr, M.L., **McNeish, D.**, Smiley, P.A., Buttitta, K.V., Rasmussen, H.F., & Borelli, J.L. (2020). Quantitatively representing real-time emotion dynamics: attachment-based differences in mothers' emotion. *Journal of Family Psychology, 34,* 480-489.
    Impact Factor: 1.8 [2019 Journal Citation Reports® (Thomson Reuters, 2020)]

2019 ($n = 9$)

69. **McNeish, D.** (2019). Poisson multilevel models with small samples. *Multivariate Behavioral Research, 54*, 444-455.
    Impact Factor: 2.1 [2018 Journal Citation Reports® (Thomson Reuters, 2019)]

70. **McNeish, D.** (2019). Effect partitioning in cross-sectionally clustered data without multilevel models. *Multivariate Behavioral Research, 54,* 906-925.
    Impact Factor: 2.1 [2018 Journal Citation Reports® (Thomson Reuters, 2019)]

71. **McNeish, D.** & Kelley, K. (2019). Fixed effects models versus mixed effects models for clustered data: Reviewing the approaches, disentangling the differences, and making recommendations. *Psychological Methods, 24,* 20-35.
    Impact Factor: 8.2 [2018 Journal Citation Reports® (Thomson Reuters, 2019)]

72. **McNeish, D.** (2019). Two-level dynamic structural equation models with small samples. *Structural Equation Modeling, 26,* 948-966.
    Impact Factor: 4.4 [2018 Journal Citation Reports® (Thomson Reuters, 2019)]

73. **McNeish, D.** & Dumas, D.G. (2019). Scoring repeated standardized tests to estimate capacity, not just current ability. *Policy Insights from the Brain and Behavioral Sciences*, *6*, 218-224. [Invited Paper].
    Impact Factor: 2.5 [2017 CiteScore (Scopus, 2019)]

74. Dumas, D., **McNeish**, **D.**, Schreiber-Gregory, D., Durning, S.J., & Torre, D.M. (2019). Dynamic measurement in health professions education: Rationale, application, and possibilities. *Academic Medicine, 94,* 1323-1398.
    Impact Factor: 4.9 [2018 Journal Citation Reports® (Thomson Reuters, 2019)]

75. Dumas, D.G., **McNeish, D.**, Sarama, J., & Clements, D. (2019). Pre-school mathematics intervention can significantly improve student learning trajectories through elementary school. *AERA Open, 5* (4), 1-15.
    Impact Factor: 1.9 [2018 Journal Citation Reports® (Thomson Reuters, 2019)]

76. Silverman, R.D., Artzi, L., **McNeish, D**., Hartranft, A., Martin-Beltran, M., & Peercy, M. (2019). The relationship between media type and vocabulary learning in a cross age peer-learning program for linguistically diverse elementary school students. *Contemporary Educational Psychology, 56,* 106-116.
    Impact Factor: 2.5 [2018 Journal Citation Reports® (Thomson Reuters, 2019)]

77. Wentzel, K., Tomback, R., Williams, A., & **McNeish, D.** (2019). Perceptions of competence, control, and belongingness over the transition to high school: A mixed-method study. *Contemporary Educational Psychology, 56,* 55-66.
    Impact Factor: 2.5 [2018 Journal Citation Reports® (Thomson Reuters, 2019)]

2018 (*n* = 10)

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79. **McNeish, D.** & Hancock, G.R. (2018). The effect of measurement quality on targeted structural model fit indices: A comment on Lance, Beck, Fan, and Carter (2016). *Psychological Methods*, *23*, 184-190.
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80. **McNeish, D.,** An, J., & Hancock, G.R. (2018). The thorny relation between measurement quality and fit index cut-offs in latent variable models. *Journal of Personality Assessment, 100,* 43-52.
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81. **McNeish, D.** & Matta, T. (2018). Differentiating between mixed effects and latent curve approaches to growth modeling. *Behavior Research Methods, 50,* 1398-1414.
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82. **McNeish, D.** & Dumas, D.G. (2018). Calculating conditional reliability for dynamic measurement model capacity estimates. *Journal of Educational Measurement*, *55,* 614-634.
    Impact Factor: 0.9 [2017 Journal Citation Reports® (Thomson Reuters, 2018)]

83. **McNeish, D.** (2018). Growth models with small samples and missing data. *Journal of Experimental Education*, *86*, 690-701.

Impact Factor: 1.9 [2017 Journal Citation Reports® (Thomson Reuters, 2018)]

84. **McNeish, D.** (2018). Approximating item difficulty with the Kaplan-Meier estimator. *Journal of Experimental Education, 86,* 308-324.
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86. Wentzel, K., Muenks, K.M., **McNeish, D.**, & Russell, S. (2018). Emotional support, social goals, and classroom behavior: A multi-level multi-site study. *Journal of Educational Psychology, 110,* 611-627.
    Impact Factor: 4.4 [2017 Journal Citation Reports® (Thomson Reuters, 2018)]

87. Hussong, A.M., Ennett, S.T., **McNeish, D.**, Rothenberg, W.A., Cole, V., Gottfredson, N.C., & Faris, R.W. (2018). Teen social networks and depression-substance use associations: Developmental and demographic variation. *Journal of Studies on Alcohol and Drug Use, 79,* 770-780.
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2017 (*n* = 19)

88. **McNeish, D.**, Stapleton, L. M., & Silverman, R.D. (2017). On the unnecessary ubiquity of hierarchical linear modeling. *Psychological Methods*, 22, 114-140.
    Impact Factor: 4.7 [2016 Journal Citation Reports® (Thomson Reuters, 2017)]

89. **McNeish, D.** (2017). Small sample methods for multilevel modeling: A colloquial elucidation of REML and the Kenward-Roger correction. *Multivariate Behavioral Research, 52,* 661-670.
    Impact Factor: 2.6 [2016 Journal Citation Reports® (Thomson Reuters, 2017)]

90. **McNeish, D.,** & Wentzel, K.R. (2017). Accommodating small sample sizes in three level models when the third level is incidental. *Multivariate Behavioral Research, 52,* 200-215.
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91. **McNeish, D.** & Dumas, D. (2017). Non-linear growth models as psychometric models: A second-order growth curve model for measuring potential. *Multivariate Behavioral Research, 52,* 61-85.
    Impact Factor: 2.6 [2016 Journal Citation Reports® (Thomson Reuters, 2017)]

92. **McNeish, D.** (2017). Challenging conventional wisdom for multivariate statistical models with small samples. *Review of Educational Research, 87,* 1117-1151.
    Impact Factor: 5.3 [2016 Journal Citation Reports® (Thomson Reuters, 2017)]

93. **McNeish, D.** (2017). Multilevel mediation with few clusters: A cautionary note on the multilevel structural equation modeling framework. *Structural Equation Modeling, 24,* 609-625.
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94. **McNeish, D.** (2017). Exploratory factor analysis with small samples and missing data. *Journal of Personality Assessment, 99*, 637-652.
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   Impact Factor: 1.6 [2016 Journal Citation Reports® (Thomson Reuters, 2017)]

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97. **McNeish, D.** & Harring, J.R. (2017). The effect of model misspecification in growth mixture model class enumeration. *Journal of Classification, 34,* 223-248.
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98. **McNeish, D.** (2017). Missing data methods for arbitrary missingness with small samples. *Journal of Applied Statistics, 44*, 24-39.
   ** *Paper was the runner-up for the journal's 2017* Best Paper Prize
   ** 2nd most viewed paper in the journal's history
   Impact Factor: 0.7 [2016 Journal Citation Reports® (Thomson Reuters, 2017)]

99. **McNeish, D.**, & Harring, J.R. (2017). Clustered data with small sample sizes: Comparing the performance of model-based and design-based approaches. *Communications in Statistics: Simulation and Computation, 46*, 855-869.
   ** 5th most viewed paper in the journal's history
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100. Dumas, D. & **McNeish, D.** (2017). Dynamic measurement modeling: Using nonlinear growth models to estimate student learning capacity. *Educational Researcher, 46,* 284-292.
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   Impact Factor: 1.6 [2016 Journal Citation Reports® (Thomson Reuters, 2017)]

102. Harring, J.R., **McNeish, D., &** Hancock, G.R. (2017). Using phantom variables in structural equation modeling to assess model sensitivity to external misspecification. *Psychological Methods, 22,* 616-631.
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    Impact Factor: 2.9 [2016 Journal Citation Reports® (Thomson Reuters, 2017)]

104. Elzakkers, I.F.F.M., Danner, U.N., Sternheim, L.C., **McNeish, D.**, Hoek, H.W., & van Elburg, A.A. (2017). Mental capacity to consent to treatment and the association with outcome – a longitudinal study in anorexia nervosa patients. *British Journal of Psychiatry Open, 3,* 147-153.
    Impact Factor: 2.5 [2017 CiteScore (Scopus, 2017)]

105. Silverman, R.D., Martin-Beltran, M., Peercy, M.M., Hartranft, A.M., **McNeish, D.**, Artzi, L., & Nunn, S.G. (2017). Effects of a cross-age peer learning program on the vocabulary and comprehension of ELs and Non-ELs in elementary school. *The Elementary School Journal, 117,* 485-512.
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106. Silverman, R. D., Kim, Y., Hartranft, A. M., Nunn, S.J., **McNeish, D.** (2017). Effects of a multimedia enhanced reading buddies program in kindergarten and fourth grade. *Journal of Educational Research, 110,* 391-404.
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2016 (*n* = 7)

107. **McNeish, D.**, & Stapleton, L.M. (2016). The effect of small sample size on two level model estimates: A review and illustration. *Educational Psychology Review, 28*, 295-314.
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    Impact Factor: 1.1 [2015 Journal Citation Reports® (Thomson Reuters, 2016)]

111. **McNeish, D.** (2016). On using Bayesian methods to address small sample problems. *Structural Equation Modeling, 23,* 750-773.
    Impact Factor: 3.2 [2015 Journal Citation Reports® (Thomson Reuters, 2016)]

112. Kang, Y., **McNeish, D.**, & Hancock, G. R. (2016). The role of measurement quality on practical guidelines for assessing measurement and structural invariance. *Educational and Psychological Measurement. 76*, 533-561.
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113. Stapleton, L.M., **McNeish, D.** & Yang, J.S. (2016)*.* Multi-level and single-level models for measured and latent variables when data are clustered. *Educational Psychologist, 51,* 317-330.
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2015 & Prior (*n* = 5)

114. **McNeish, D.** (2015). Using Lasso for predictor selection and to assuage overfitting: A method long overlooked in behavioral sciences. *Multivariate Behavioral Research, 50,* 474-481.
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115. **McNeish, D.**, & Dumas, D. (2015). A second-order model for understanding potential. *Multivariate Behavioral Research, 51*, 727. [Abstract]
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116. **McNeish, D.** (2014). Modeling sparsely clustered data: Design-based, model-based, and single-level methods. *Psychological Methods, 19,* 552-563.
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117. **McNeish, D.** (2014). Analyzing clustered data with OLS regression: The effect of a hierarchical data structure. *General Linear Model Journal, 40*, 11-16.

118. Stemler, S. E., Elliott, J. G., **McNeish, D.**, Grigorenko, E. L. & Sternberg, R. J. (2012). Examining the construct and cross-cultural validity of the Teaching Excellence Rating Scale (TERS). *The International Journal of Educational and Psychological Assessment*, *9*, 121-138.

Book Chapters (*n* = 5)

119. Dumas, D.G. & **McNeish, D.** (in press). Dynamic measurement. In S. Sinharay (Ed.), *Encyclopedia of Social Measurement* (2nd Ed)*,* Elsevier.

120. West, S.G., Wu, W., **McNeish, D.**, & Savord, A. (2023). Model fit in structural equation modeling. In R.H. Hoyle (Ed.), *Handbook of Structural Equation Modeling* (2nd Ed.). Guilford Press, pp. 184-205.

121. Bauer, D.J., **McNeish, D**., Baldwin, S.A., & Curran, P.J. (2020). Analyzing nested data: Multilevel modeling and alternative approaches. In A. Wright & M. Hallquist (Eds.), *Handbook of research methods in clinical psychology*. Cambridge University Press, pp. 426-443.

122. Hox, J. J., & **McNeish, D**. (2020). Small samples in multilevel modeling. In R. Van de Schoot & M. Miočević (Eds.), *Small sample size solutions: A guide for applied researchers and practitioners*. Routledge, pp. 215-225.

123. **McNeish, D.**, Lane, S., & Curran, P.J., (2019). Monte Carlo simulation studies. In G.R. Hancock, R.O. Mueller, & Stapleton, L.M. (Eds.), *The reviewer's guide to quantitative methods in the social sciences*, pp. 269-278.

Technical Reports & Briefs (*n* = 7)

124. Dumas, D., **McNeish, D.**, Dong, Y., & Duellberg, D. (2022). Improving the fairness of Coast Guard recruitment and selection with the ASVAB and AFCT. Technical report. *Defense Technical Information Center*, AD1168899.

125. **McNeish, D.**, Radunzel, J., & Sanchez, E. I. (2016). Adjusted differences in ACT$^®$ scores by race/ethnicity. *ACT Data Byte,* 2016-7.

126. **McNeish, D.**, Radunzel, J., & Sanchez, E. I. (2016). Adjusted differences in ACT$^®$ scores by parental education level. *ACT Data Byte,* 2016-6.

127. **McNeish, D.**, Radunzel, J., & Sanchez, E. I. (2016). Adjusted differences in ACT$^®$ scores by family income. *ACT Data Byte,* 2016-5.

128. **McNeish, D.**, Radunzel, J., & Sanchez, E. I. (2016). Relating student and school characteristics to performance on the ACT$^®$. *ACT Data Byte,* 2016-4.

129. Harring, J. R., **McNeish, D**., & Zhu, X. (2016). On the adequacy of SEM model fit criteria to detect cohort effects in accelerated longitudinal designs. Technical report. University of Maryland, College Park.

130. **McNeish, D.**, Radunzel, J., & Sanchez, E. I. (2015). Relating non-cognitive student characteristics to the ACT® College Readiness Assessment. *ACT Research Report Series*, RR2015-6.

Software (*n* = 8)

131. **McNeish, D.** (2025). Dynamic measurement invariance cutoffs: Dependent Groups (version 0.1.0.). [Software]. Available from https://dynamicfit.app/MIDG/

132. **McNeish, D.** (2025). Intensive longitudinal psychometrics (version 0.1.0.). [Software]. Available from https://dynamicfit.shinyapps.io/IL_Psychometrics/

133. **McNeish, D.** (2024). Dynamic measurement invariance cutoffs(version 0.1.0.). [Software]. Available from https://dynamicfit.app/MI/

134. **McNeish, D.** & Dumas, D.G. (2024). Reliability representativeness (version 0.1.0.). [Software]. Available from www.dynamicfit.app/RelRep

135. Wolf, M.G. & **McNeish, D.** (2022). dynamic: DFI cutoffs for latent variables models (version 1.1.0). [Software]. Available from CRAN, https://cran.r-project.org/web/packages/dynamic (~400 downloads/month)

136. Matta, T.H. & **McNeish, D.** (2020). glvmfit: Methods to assess generalized latent variable model fit (version 0.0.0). [Software]. Available from CRAN, https://cran.r-project.org/web/packages/glvmfit (~ 500 downloads/month)

137. Wolf, M. G. & **McNeish, D.** (2020). Dynamic Model Fit (version 0.1.0.). [Software]. Available from www.dynamicfit.app (~900 uses/month)

138. Peters, G.J. & **McNeish, D.** (2016). scaleStructure: scaleStructure (version 0.5-2) [Software]. Now available as a function in the ufs R package, https://cran.r-project.org/web/packages/ufs/ (ufs receives ~1250 downloads/month)

MANUSCRIPTS UNDER REVISION

1. **McNeish, D.** (under review). Approximate fit for measurement invariance and nested structural equation models. *Psychological Methods.*

2. **McNeish, D**. (under review). Within-person reliability for intensive longitudinal single-item scales with Likert responses. *Multivariate Behavioral Research.*

3. **McNeish, D.** (under review). Dynamic measurement invariance cutoffs for longitudinal and dyadic data. *Behavior Research Methods*

4. Giraldo-Santiago, N., Hernández, J.M., **McNeish, D.**, Gearing, R.E., & Aarons, G.A. (under review). Evidence-based practice attitude scale for Latinx mental health professionals: A novel application of confirmatory factor analysis. *Implementation Science Communications*.

5. Quiroz, S.I., Ha, T., & **McNeish, D.** (under review) Adolescent sexting in romantic relationships and daily positive and negative affect dynamics: A dyadic intensive longitudinal study. *Computers in Human Behavior.*

6. Koch, T., Jähne, M.F., Koslowski, K, Koval, P., Lischetzke, T., **McNeish, D**., & Holtmann, J. (under review). Improving the comparability of momentary affect assessments: The role of item-specific effects in within-person affect dynamics. *Communications Psychology*.

MANUSCRIPTS UNDER FIRST REVIEW

1. Okey, S.A., McDonald, A.E., Waddell, J.T., King, S.E., **McNeish D.**, Cruz, R.A., Doane L.D., & Corbin W.R. (under review). Fast blaze, slow burn: Comparing temporal and peak subjective effects of smoked and edible cannabis using an ecological momentary assessment. *Journal of Cannabis Research.*

2. Cardenas, I., Giraldo-Santiago, N., Postmus, J., & **McNeish, D.** (under review). Measurement invariance of the PC-PTSD-5 across English and Spanish in a sample of women exposed to intimate partner violence in the United States. *Psychological Assessment.*

3. Teuber, Z., Botes, E., Reiter, J. Piotrowski, Anuola, K, Greiff, S., & **McNeish, D.** (under review). Feeling seen, feeling joyful: An intensive longitudinal study on parenting joy, perceived partner responsiveness, and their role in parenthood regret. *Journal of Marriage and Family.*

4. English, D*.,* Smith, J.C., Scott-Walker, L., Chavez, E., Reid, M., ... **McNeish, D.**, ... Millar, B.M. (under review). iTHRIVE 365 reduces the negative psychological impact of daily

intersectional stigma for black same gender loving men living with HIV. *Journal of Counseling Psychology.*

RESEARCH SUPPORT

Funded Federal Grants & Contracts
(Active & Completed)

As Principal Investigator

1.   *Intensive longitudinal psychometrics*
     Principal Investigator
     Department of Defense, United States Army Research Institute
     PI: Daniel McNeish, Arizona State University
     2026-2029
     $1,221,759
     (Recommended for funding, pending final approval when federal budget resolution is passed)

2.   *Extending dynamic fit index cutoffs for latent variable models*
     Principal Investigator
     US Department for Education, Institute of Educational Sciences (IES)
     R305D220003
     PI: Daniel McNeish, Arizona State University
     2022-2025
     $557,555

3.   *Assessment of the ASVAB through dynamic measurement modeling*
     Commissioned Contract
     Department of Defense, United States Navy Research Laboratory
     Contract PR-11639169
     PIs: Denis Dumas & Daniel McNeish
     2021-2022
     $360,000

4.   *Addressing small sample and computational issues in mixture models of repeated measures data with covariance pattern mixture models*
     Principal Investigator
     US Department for Education, Institute of Educational Sciences (IES)
     R305D190011
     PI: Daniel McNeish, Arizona State University
     2019-2021
     $209,305

As Co-Investigator or Key Personnel

5.   *Examining a multicomponent intervention to improve HIV health among black men in southern ending the HIV epidemic in the U.S. jurisdictions*
Key Personnel
R01MH134265
National Institute on Minority Health and Health Disparities (NIH-NIMHD)
PIs: Devin English (Rutgers) & Justin C. Smith (CDC)
2023-2028
$2,875,464

6.   *Childhood obesity and cardiometabolic health among impoverished Mexican Americans*
Co-Investigator
National Institute on Minority Health and Health Disparities (NIH-NIMHD)
R01MD011599
PIs: Marisol Perez & Linda Luecken, Arizona State University
2022-2027
$3,788,455

7.   *Estimating mediation effects in prevention studies*
Co-Investigator
National Institute on Drug Abuse (NIH-NIDA)
R37DA009757
PI: David MacKinnon, Arizona State University
2020-2025
$1,835,367

8.   *Promoting health by understanding risk and protective factors for substance use among Latino youth in rural and small town communities in the United States*
Co-Investigator
National Institute on Drug Abuse (NIH-NIDA)
R01DA048827
PI: Katarina Guttmannova, University of Washington
2020-2024
$1,243,696

9.   *The interplay of social, normative, and legal marijuana environments and marijuana and ATOD use from late childhood to young adulthood*
Co-Investigator
National Institute on Drug Abuse (NIH-NIDA)

R01DA044522
PIs: Sabrina Oesterle (Arizona State) & Margaret Kuklinski (Washington)
2018-2023
$4,966,151

10.   *Contextual and intrapersonal influences on impaired control over drinking*
      Key Personnel
      National Institute on Alcohol Abuse and Alcoholism (NIH-NIAAA)
      K01AA024160
      PI: Julie Patock-Peckham, Arizona State University
      2020-2022
      $705,615

11.   *Applying novel technologies and methods to inform the ontology of self-regulation*
      Co-Investigator
      National Institute on Drug Abuse (NIH-NIDA)
      UH3DA041713
      PI: Lisa Marsch (Dartmouth) & Russell Poldrack (Stanford)
      2018-2022
      $2,816,716

12.   *Harmonizing substance use and disorder measures to facilitate multistudy analyses*
      Statistician
      National Institute on Drug Abuse (NIH-NIDA)
      R01DA034636
      PI: Daniel Bauer, University of North Carolina, Chapel Hill
      2013-2018
      $2,553,540

13.   *Peer mechanisms in the internalizing pathway to substance use*
      Statistician
      National Institute on Drug Abuse (NIH-NIDA)
      R01DA037215
      PI: Andrea Hussong, University of North Carolina, Chapel Hill
      2014-2017
      $689,930

As Consultant, Mentor, or Advisor

14.   *ChatBCT: Interdisciplinary personalized digital health analytics training for behavior change technologies*
        Data Science Mentor & Co-Investigator (T32)
        National Institute of Health
        PIs: Matthew Buman & Hassan Zadeh, PIs, Arizona State
        2025-2030
        $1,421,440

15.   *Bisexual adolescents' and young adults' risk for depression and suicidal ideation: Developmental trajectories, risk and protective factors, and underlying mechanisms.*
        Consultant Statistician
        National Institute of Mental Health (NIH-NIMH)
        R01MH138335
        PIs: Christina Dyar (Ohio State) & Brian Feinstein (Rosalind Franklin)
        2025-2030
        $815,881
        * Terminated early by federal government

16.   *Testing a multistage model of risk factors for cannabis use utilizing a measurement burst design among sexual minority women, sexual minority gender diverse individuals, and heterosexual women.*
        Consultant Statistician
        National Institute on Drug Abuse (NIH-NIDA)
        R01DA058642
        PI: Christina Dyar, Ohio State University
        2023-2028
        $3,415,016
        * Terminated early by federal government

17.   *Deep microstructural phenotyping of the developing brain*
        Advisory Committee
        Discovery Award, Wellcome Trust (UK)
        227882/Z/23/Z
        PIs: Derek Jones (Cardiff), Sarah-Jayne Blakemore (Cambridge), Marianne van den Bree (Cardiff), & Rogier Kievit (Donders Institute)
        2024-2032
        £5,508,635

18. *Affective and cognitive mechanisms of emotion-based impulsivity in bipolar disorder: Linking neural oscillatory dynamics to real-world outcomes*
Consultant Statistician
National Institute of Mental Health (NIH-NIMH)
K23MH131601
PI: Sarah Sperry, University of Michigan
2023-2028
$963,166

19. *Daily impact of stressful digital events during the Covid-19 pandemic*
Statistical Mentor (F31)
National Institutes on Alcohol Abuse and Alcoholism (NIH-NIAAA)
F31AA030212
PI: Selena Quiroz, Arizona State University
2022-2024
$117,495

20. *Research training in drug abuse prevention*
Statistical Mentor & Co-Investigator (T32)
National Institute on Drug Abuse (NIH-NIDA)
T32DA039772
PI: Nancy Gonzales, Arizona State University
2021-2026
$2,177,478

21. *Childhood adversity in adolescent custodial grandchildren*
Statistical Mentor (F31)
National Institute of Child Health and Human Development (NIH-NICHD)
F31HD103373
PI: Saul Castro, Arizona State University
2021-2023
$107,904

22. *The CLAVES intervention project: developing a supplemental intervention for comprehension, linguistic awareness, and vocabulary in English for Spanish speakers*
Consultant Statistician
US Department for Education, Institute of Educational Sciences (IES)
R305A140114
PI: Patrick Proctor, Boston College
2014-2017

$1,470,182

23. *Developing a cross-age peer-tutoring program to promote the vocabulary and comprehension of English learners*
Consultant Statistician
US Department for Education, Institute of Educational Sciences (IES)
R305A110142
PI: Rebecca Silverman, University of Maryland
2011-2014
$1,500,000

Proposals Under Review

24. *Extending dynamic structural equation models for missing not at random intensive longitudinal data*
Principal Investigator
National Science Foundation; Methodology, Measurement, & Statistics (NSF-MMS)
PI: Daniel McNeish, PI, Arizona State University
2026-2029

25. *Outcomes and mechanisms of a digital mindfulness intervention for loneliness*
Co-Investigator, subcontract PI
National Center for Complementary and Integrative Health (NIH-NCCIH)
PI: Kirk Warren Brown, Carnegie Mellon
2025-2030
Status: Additional information requested, pending OCRA approval

26. *Assessing the fluctuation of science PhD student depressive symptoms and associated consequences*
Co-PI
Spencer Foundation
PI: Katelyn Cooper, Arizona State
2026-2030
Status: Full proposal invited (< 30% of preproposals invited)

27. *Using a measurement burst design to test a multistage model of risk factors for cannabis use*
Consultant Statistician
National Institute on Drug Abuse (NIH-NIDA)
PI: Christina Dyar (Ohio State)

2026-2031

28. *Modeling emergent long-term change from momentary dynamics*
Advisory Board Member (CAREER submission)
National Science Foundation; Methodology, Measurement, & Statistics (NSF-MMS)
PI: Ethan McCormick, University of Delaware
2026-2031

29. *Real-Time predictors of stimulant adherence, misuse, and diversion among college students prescribed stimulant medication for ADHD*
Statistical Mentor (F31)
National Institute on Drug Abuse (NIH-NIDA)
PI: Abigail McDonald, Arizona State University
2026-2028

30. *Nonlinear dosage response in reading interventions*
Co-Principal Investigator, subcontract PI
US Department for Education, Institute of Educational Sciences (IES)
PI: Garrett Roberts, University of Denver
2026-2030

31. *Enhancing the risk and protective factor framework for adolescent substance use*
Co-Investigator, subcontract PI
National Institute on Drug Abuse (NIH-NIDA)
PIs: Margaret Kuklinski & Nicole Eisenberg, PIs, University of Washington
2026-2031

32. *Substance use among established adults in the wake of a major disaster: Implications for prevention and disaster preparedness*
Co-Investigator
National Institute on Drug Abuse (NIH-NIDA)
PIs: Margaret Kuklinski (Washington) & Sabrina Oesterle (Arizona State)
2025-2030

33. *Transactions among adolescent technology engagement, self-regulation, sleep, and ADHD: Traditional and intensive longitudinal methodologies*
Consultant Statistician
National Institute on Mental Health (NIH-NIMH)
PIs: Jessica Dollar & Michaeline Jensen, University of North Carolina

2026-2030

34. *Unpacking parents' immediate responses to impairing emotional outbursts in children*
    Consultant Statistician
    National Institute of Health
    PI: William Pelham, University of California-San Diego
    2026-2031

35. *Optimizing and individualizing intervention for students with reading difficulties via Alpha-I^3*
    Consultant Statistician and Advisory Board Member
    National Institute of Child Health and Human Development (NIH-NICHD)
    PI: Yixiao Dong, University of California-Santa Barbara
    2026-2028

Fellowships

2013-2015	Flagship Fellowship, University of Maryland
	Award: $50,000 + tuition remission
2011-2015	Dean's Fellowship, University of Maryland
	Award: $35,000 + tuition remission
2014-2015	All-S.T.A.R. Fellowship, University of Maryland
	Award: $10,000
2013-2014	Merit Fellowship, University of Maryland
	Award: $2,000
2010	Quantitative Analysis Center Fellowship, Wesleyan University
	Award: $3,800

Travel Awards

2015	SMEP Conference Travel Award ($1500)
2013, 2015	HDQM Graduate Student Travel Grant ($400 each)

Data Awards

2017-2020	Kingsbury Research Award, NWEA
	Awardees: Denis Dumas & Daniel McNeish
	Award: Access to restricted data and technical support from NWEA

TEACHING & DISSEMINATION

Instructor of Record

2017- ARIZONA STATE UNIVERSITY
Course: PSY 539 Multilevel Models for Psychological Research
PSY 537 Longitudinal Growth Modeling
PSY 591 Simulation & Computation
PSY 230 Introduction to Statistics
PSY 598 Design & Data Analysis Seminar
LOWER RATINGS ARE BETTER AT ASU (1 - 5 SCALE)
Fall 2017 Evaluation (PSY 539, 29 students): 1.0 / 5.0
Fall 2018 Evaluation (PSY 539, 24 students): 1.1 / 5.0
Spr. 2019 Evaluation (PSY 230, 46 students): 1.1 / 5.0
Spr. 2019 Evaluation (PSY 230, 13 students): 1.4 / 5.0
Fall 2019 Evaluation (PSY 537, 31 students): 1.0 / 5.0
Spr. 2020 Evaluation (PSY 230, 47 students): 1.2 / 5.0
Spr. 2021 Evaluation (PSY 591, 10 students): 1.0 / 5.0
Fall 2021 Evaluation (PSY 539, 40 students): 1.0 / 5.0
Spr. 2022 Evaluation (PSY 537, 40 students): 1.0 / 5.0
Fall 2022 Evaluation (PSY 539, 36 students): 1.1 / 5.0
Fall 2022 Evaluation (PSY 598, 9 students): 1.0 / 5.0
Spr. 2023 Evaluation (PSY 598, 9 students): 1.0 / 5.0
Fall 2024 Evaluation (PSY 539, 39 students): 1.0 / 5.0
Fall 2025 Evaluation (PSY 539, 18 students): 1.0 / 5.0

2016 UNIVERSITY COLLEGE UTRECHT
Course: MET23 Applied Multivariate Statistics
MET2A Analysis of Behavioral Data (Psychometrics)
MET22 Applied Multivariate Statistics (MET23 + MET2A)
Spr. 2016 Evaluation (MET23, 24 students): 4.8/5.0
Spr. 2016 Evaluation (MET2A, 23 students): 4.6/5.0
Sum 2016 Evaluation (MET22, 29 students): 4.8/5.0

2012-2015 UNIVERSITY OF MARYLAND
Course: EDMS 451 Introduction to Educational Statistics
Fall 2012 Evaluation (EDMS 451, 30 students): 3.8/4.0
Spr. 2013 Evaluation (EDMS 451, 30 students): 3.9/4.0
Sum 2015 Evaluation (EDMS 451, 11 students): 3.8/4.0

Short Courses & Workshops

Dynamic Structural Equation Modeling
> 2026 APR, Bringham Young University, Provo, UT
> 2026 APR, University of California, Santa Barbara, CA
> 2026 MAR, Statistical Horizons, Remote
> 2025 AUG, Statistical Horizons, Remote
> 2025 MAY, Washington State University, Pullman, WA
> 2025 APR, University of North Carolina, Chapel Hill, NC
> 2025 FEB, Statistical Horizons, Remote

Latent Growth Curve Modeling
> 2025 DEC, Statistical Horizons, Remote
> 2025 JAN, Statistical Horizons, Remote
> 2024 JAN, Statistical Horizons, Remote

Multilevel Modeling with Small Samples
> 2018 MAR, Small Sample Solutions Conference, Utrecht, Netherlands.
>   Materials presented by Joop Hox (health issue precluded my attendance)
> 2017 APR, International Multilevel Conference, Utrecht, the Netherlands
>   Co-taught with Rens van de Schoot

Bayesian Analysis with Small Samples
> 2017 AUG, European Conference on Developmental Psychology, Utrecht, Netherlands
>   Co-taught with Rens van de Schoot

Introduction to Structural Equation Modeling with Mplus
> 2017 APR, Utrecht University Summer School, Utrecht, the Netherlands
>   Co-taught with Rens van de Schoot

Other
2012   Teaching Assistant, University of Maryland
> Courses: EDMS 451 Introduction to Educational Statistics
>   EDMS 645 Quantitative Research Methods

2012   Teaching Trainee Program, University of Maryland
> Course: EDMS 451 Introduction to Educational Statistics

MENTORING & ADVISING

Graduate & Postdoc Mentoring

2021 –   Xinran Liu (PhD, primary advisor)

2018 – 2023   Andrea Savord (PhD, primary advisor)
              First Position: Associate Statistician, Vector Psychometric Group

2022 – 2023   Patrick Manapat (Postdoc, primary advisor)
              First Position: Research Associate, University of Texas-Austin
              Current Position: Assistant Professor, University of Oklahoma

2020 – 2022   Melissa Wolf (PhD, lab member)
              First Position: UX Researcher, Microsoft
              Current Position: Statistical Programmer, Delfi Diagnostics

2021 – 2022   Yixiao Dong (Postdoc, external co-advisor)
              First Position: Assistant Professor, University of Denver
              Current Position: Assistant Professor, UC-Santa Barbara

2018 – 2021   Jennifer Somers (PhD, co-advisor)
              First Position: Postdoctoral Fellow, UCLA
              Current Position: Assistant Professor, Auburn University

2017 – 2018   Daniel Coven (Social Science Methods Certificate, co-advisor)
              First Position: Biostatistician, Arizona State University

2016   Sanne Smid (PhD, Utrecht University, secondary advisor)
              First Position: Data Scientist, Office of Education (Dutch Government)

Chaired or Co-Chaired Committees (*n* = 7)

Ongoing	Xinran Liu	Dissertation
2025	Xinran Liu	Comp. Exam
2023	Andrea Savord	Dissertation
2021	Andrea Savord	Comp. Exam
2020	Jennifer Somers	Dissertation (Co-Chair)
2020	Andrea Savord	First-Year Project
2018	Daniel Coven	Social Science Research Methods Certificate

Committee Member (*n* = 49)

Ongoing	Maggie Clever	Comp. Exam	ASU PSY – Quant
Ongoing	Sarah Johnson	Comp. Exam	ASU PSY – Quant
Ongoing	Melissa Uribe	Dissertation	ASU PSY – Clinical
Ongoing	Lidia Obregon	Comp. Exam	ASU PSY – Cognitive
Ongoing	Maria Wilson	Dissertation	ASU PSY – Clinical
Ongoing	Byron García	Dissertation	ASU PSY – Clinical
Ongoing	Russell Houpt	Dissertation	ASU PSY – Quant
2025	Molly Gardner	Dissertation	ASU PSY – Quant

2025	Abigail McDonald	Comp. Exam	ASU PSY – Clinical
2025	Sarah Johnson	Thesis	ASU PSY – Quant
2025	Maggie Clever	Thesis	ASU PSY – Quant
2025	Diana Alvarez Bartolo	Dissertation	ASU PSY – Quant
2024	Yibin Ni	Dissertation	ASU PSY – Quant
2024	Aubrey Rhodes	Dissertation	ASU PSY – Clinical
2024	Felix Muniz	Dissertation	ASU PSY – Quant
2024	Selena Quiroz	Dissertation	ASU PSY – Developmental
2024	Russell Houpt	Comp. Exam	ASU PSY – Quant
2024	Molly Gardner	Comp. Exam	ASU PSY – Quant
2023	Yibin Ni	Comp. Exam	ASU PSY – Quant
2023	Lindsay Chromik	Thesis	ASU PSY – Clinical
2023	Diana Alvarez Bartolo	Comp. Exam	ASU PSY – Quant
2023	R.J. Risueño	Comp. Exam	ASU Speech & Hearing
2023	Xinran Liu	Thesis	ASU PSY – Quant
2023	Sydni Basha	Comp. Exam	ASU PSY – Clinical
2023	Felix Muniz	Comp. Exam	ASU PSY – Quant
2023	Lynn Muldrew	Thesis	ASU PSY – Clinical
2023	Sarah Okey	Dissertation	ASU PSY – Clinical
2023	Danielle Rodgers	Dissertation	ASU PSY – Quant
2022	Melissa Wolf	Dissertation	UCSB Quant Methods
2022	Heather Smyth	Dissertation	ASU PSY – Quant
2022	Russel Houpt	Thesis	ASU PSY – Quant
2022	Diana Alvarez Bartolo	Thesis	ASU PSY – Quant
2022	Melissa Sacchetta	Dissertation	ASU Speech & Hearing
2022	Molly Gardner	Thesis	ASU PSY – Quant
2022	Sydni Basha	Thesis	ASU PSY – Clinical
2021	Danielle Rodgers	Comp. Exam	ASU PSY – Quant
2021	Leena Bui	Dissertation	ASU PSY – Clinical
2021	Charles Van Liew	Dissertation	ASU Health Solutions
2021	Yixiao Dong	Dissertation	U. of Denver Info Science
2021	Heather Smyth	Comp. Exam	ASU PSY – Quant
2020	Felix Muniz	Thesis	ASU PSY – Quant
2020	Charles Van Liew	Comp. Exam	ASU Health Solutions
2020	Amanda Bruening	Dissertation	ASU PSY – Clinical
2019	Gabriela Stegmann	Dissertation	ASU PSY – Quant
2019	Kimberly Fine	Dissertation	ASU PSY – Quant
2019	Austin Blake	Thesis	ASU PSY – Clinical
2019	Saul Castro	Comp. Exam	ASU PSY – Developmental
2018	Kimberly Fine	Comp. Exam	ASU PSY – Quant

| 2018 | Gabriela Stegmann | Comp. Exam | ASU PSY – Quant |

Advisee Awards

2024   Xinran Liu
Teaching Excellence Award
ASU Psychology Department

2020   Andrea Savord
Graduate College Fellowship
ASU Graduate College

2020   Jenn Somers
PEO Scholar Fellowship
$15,000 external merit fellowship for academic excellence

2020   Jenn Somers
ProQuest Distinguished Dissertation Award
ASU Semi-Finalist

2019   Jenn Somers
Doctoral Scholar Award
ASU Psychology Department

2018   Sanne Smid
Award for Best Student Presentation at S4 Conference

PRESENTATIONS
(Underline indicates student author)

Invited

1. 2026   Tilburg Univ., Tilburg Experience Sampling Center
2. 2025   Univ. of Maryland, Measurement & Statistics Program
3. 2025   Univ. of North Carolina-Chapel Hill, Psychology Dept.
4. 2025   Univ. of California-Davis, Psychology Dept.
5. 2024   Keynote, International Conference on Multilevel Analysis, Netherlands
6. 2023   Yale University, Psychology Dept.
7. 2022   Johns Hopkins University, Biostatistics Dept.
8. 2020   Keynote, Small Sample Size Solutions (S4) Conference, Netherlands
                * Conference cancelled due to COVID-19
9. 2020   Notre Dame, Psychology Dept./Mendoza College of Business
10. 2017   Univ. of Connecticut, School of Education/Statistics Dept.

11. 2014   Harvard University, School of Education

International

12. Dumas, D., <u>Dong, Y.</u>, & **McNeish, D**. (2023, August). *How fair is my test? A ratio coefficient to help represent consequential validity*. Poster presented at the Biennial meeting of the European Association for Research on Learning and Instruction (EARLI), Thessaloniki, Greece.

13. Dumas, D. & **McNeish, D.** (2019, April). *Calculating conditional reliability for dynamic measurement model capacity estimates*. Paper presented at the annual meeting of the National Council on Measurement in Education (NCME), Toronto, ON, Canada.

14. Dumas, D. & **McNeish, D**. (2019, April). *Increasing the consequential validity of reading assessment using dynamic measurement modeling*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Toronto, ON, Canada.

15. **McNeish, D.** & Dumas, D. (2018, September). *Dynamic measurement modeling: using nonlinear growth models to estimate learning capacity*. Frontiers in Educational Measurement Conference, Oslo, Norway.

16. <u>Smid, S.C.</u>, Depaoli, S., **McNeish, D.,** Miocevic, M., & van de Schoot, A.G.J. (2018, March). *Bayesian SEM with informative priors: Precautions and guidelines*. Paper presented at the Small Sample Size Solutions (S4) Conference, Utrecht, the Netherlands.
    *Won award for best student talk at the conference.

17. **McNeish, D.** (2017, August). *Do Bayesian methods cure small sample issues?*. Part of a symposium on Bayesian SEM with small samples (with <u>Smid, S.C.</u>, <u>Zondervan-Zwijnenburg, M.A.J.</u>, <u>Schrooten, I.</u>, & van de Schoot, A.G.J) at the 18th European Conference on Developmental Psychology, Utrecht, the Netherlands.

18. <u>Smid, S.C.</u>, **McNeish, D.,** & van de Schoot, A.G.J. (2017, August). *Bayesian vs. maximum likelihood estimation for small samples: A systematic review*. Part of a symposium on Bayesian SEM with small samples (with <u>Smid, S.C.</u>, <u>Zondervan-Zwijnenburg, M.A.J.</u>, <u>Schrooten, I.</u>, & van de Schoot, A.G.J) at the 18th European Conference on Developmental Psychology, Utrecht, the Netherlands.

19. **McNeish, D**. (2017, April). *Multilevel mediation with small samples*. Paper presented the 11th International Multilevel Conference, Utrecht, the Netherlands.

20. <u>Elzakkers, I.F.F.M.</u>, Danner, U.N., Sternheim, L.C., **McNeish, D.**, Hoek, H.W., & van Elburg, A.A. (2016, October). *Anorexia nervosa and mental capacity: a longitudinal study*. Poster presented at the 21st annual meeting of the Eating Disorders Research Society (EDRS), Taormina, Sicily, Italy.

National

21. **McNeish, D.** (2025, July). DSEM with missing not at random intensive longitudinal data. Paper presentation at the International Meeting of the Psychometric Society (IMPS), Minneapolis, MN, USA.

22. **McNeish, D.** (2025, July). Recent developments in dynamic fit index cutoffs for latent variable models. Paper presentation at the International Meeting of the Psychometric Society (IMPS), Minneapolis, MN, USA.

23. <u>Liu, X.</u> & **McNeish, D.** (2024, October). Optimal number of replications for obtaining stable dynamic fit index cutoffs. Poster presented at the 64th annual meeting of the Society for Multivariate Experimental Psychology (SMEP), Ithaca, NY, USA.

24. <u>Miller, A. H.</u>, <u>Espinas, D. R.</u>, **McNeish, D.,** & Barnes, M. A. (2024, June). Dosage response in intensive math interventions for early elementary students with or at-risk for mathematics difficulties. Poster presented at the Mathematical Cognition and Learning Society Conference, Washington, D.C.

25. <u>Hernandez-Torres, J.M</u>, <u>Giraldo-Santiago, N.</u>, & **McNeish,** D. (2024, June). *Validation of the evidence-based practices attitudes scale (EBPAS) using dynamic fit index cutoffs*. Paper presentation at the Modern Modeling Methods (M3) conference, Storrs, CT, USA.

26. Oesterle, S.A., <u>Pandika, D.M.</u>, **McNeish, D.**, & Kuklinksi, M. (2023, June). *Effects of communities that care on long term alcohol use patterns from adolescence to young adulthood*. Poster presented at the 46th Annual Research Society on Alcoholism (RSA), Bellevue, WA, USA.

27. **McNeish, D**., <u>Wolf, M.G.</u>, & <u>Manapat, P.D.</u> (2023, June). *Dynamic fit indices for generalizing and extending Hu & Bentler*. Invited session at the Modern Modeling Methods (M3) conference, Storrs, CT, USA.

28. **McNeish, D.** & <u>Wolf, M.G.</u> (2022, April). *Unresolved issues with Hu and Bentler cutoffs and a method to derive more appropriate cutoffs*. Paper presented at a symposium at the annual convention for the American Educational Research Association (AERA), San Diego, CA, USA.

29. Wolf, M.G. & **McNeish, D.** (2022, April). *Dynamic model fit indices: A R Shiny application*. Paper presented at a symposium at the annual convention for the American Educational Research Association (AERA), San Diego, CA, USA.

30. Matta, T.H. & **McNeish, D.** (2022, April). *Extending the SRMR for SEMs with mean structures and covariates*. Paper presented at a symposium at the annual convention for the American Educational Research Association (AERA), San Diego, CA, USA.

31. **McNeish, D.** (2022, April). *Moving beyond Hu and Bentler: Comparing adjusted cutoffs from dynamic fit indices and equivalence testing.* Paper presented at a symposium at the annual convention for the American Educational Research Association (AERA), San Diego, CA, USA.

32. Harring, J.R., **McNeish, D.**, & Dumas, D. (2021, April). *A multilevel structured latent curve model for disaggregating student and school contributions to learning*. Paper presented at the multilevel modeling special interest group business meeting during the annual meeting of the American Educational Research Association (AERA).

33. Aitken, A. A., **McNeish, D**., & Graham, S. (2021, April). *The mediating role of motivation between choice and writing quality*. Roundtable presentation at the annual meeting of the American Educational Research Association (AERA), Virtual Presentation.

34. Dumas, D., **McNeish, D**., Roberts, G. J. (2021. April). *Conceptualizing a Nonlinear Meta-Analysis for Education Research*. Paper presented at the annual meeting of the American Educational Research Association (AERA), Virtual Presentation.

35. Blake, A.J., **McNeish, D.**, & Chassin, L. (2021, April). *The influence of parent-child separation on young-adult substance use disorder: measurement and moderation as sources of heterogeneity*. Poster presentation at the annual meeting of the Society for Research in Child Development (SRCD), Virtual Presentation.

36. **McNeish, D.** & Harring, J.R. (2020, July). *Improving convergence in growth mixture models*. Paper accepted at the International Meeting of the Psychometric Society (IMPS), College Park, MD, USA.
    * Conference cancelled due to COVID-19

37. Matta, T.H. & **McNeish, D.** (2020, July). *Refining the SRMR for latent growth curve models*. Paper accepted at the International Meeting of the Psychometric Society (IMPS), College Park, MD, USA.

* Conference cancelled due to COVID-19

38. <u>Peña, A.</u>, **McNeish, D.**, Ayers, S.L., Olson, M.L., Vander Wyst, K., Williams, A.N., Konopken, Y.P., Castro, F.G., Keller, C.S., Patrick, D.L., & Shaibi, G.Q. (2020, June). *Heterogenic response to lifestyle intervention among Latino adolescents with obesity.* Paper presented to the American Diabetes Association Scientific Sessions, Chicago, IL, USA.

39. Dumas, D., **McNeish, D.**, Sarama, J., & Clements, D. (2020, April). *Pre-school mathematics intervention can significantly improve student learning trajectories through elementary school.* Paper presented at the annual meeting of the American Educational Research Association (AERA), San Francisco, CA.
* Conference cancelled due to COVID-19

40. Dumas, D., **McNeish, D.,** Schreiber-Gregory, D., Durning, S., & Torre, D. (2020, April). *Dynamic measurement in health professions education: Rationale, application, and possibilities.* Paper presented at the annual meeting of the American Educational Research Association (AERA), San Francisco, CA, USA.
*Conference cancelled due to COVID-19

41. **McNeish, D.**, Dumas, D., & Grimm, K.J. (2019, October). *Estimating new quantities from longitudinal test scores to improve forecasts of future performance.* Paper presented at the 59th annual meeting of the Society for Multivariate Experimental Psychology (SMEP), Baltimore, MD, USA.

42. **McNeish, D.** & Harring, J.R. (2018, October). *Covariance pattern mixture models.* Paper presented at the 58th annual meeting of the Society for Multivariate Experimental Psychology (SMEP), Albuquerque, NM, USA.

43. **McNeish, D.** & Harring, J.R. (2018, September). *IH8REM: Covariance pattern mixture models.* Presentation given at the Innovations in Latent Variable and Random Effects Modeling (ILVREM) Conference, Colorado Springs, CO, USA.

44. Dumas, D.G. & **McNeish, D.** (2018, August). *Dynamic measurement modeling: Using nonlinear growth models to estimate student learning capacity.* Paper presented at the annual convention for the American Psychological Association (APA), San Francisco, CA, USA.

45. Dumas, D.G. & **McNeish, D.** (2018, March). *Dynamic measurement modeling: Using non-linear growth models to estimate student learning capacity.* Part of the symposium "Prioritizing Growth But Underutilizing Growth Scales: Implications of Advances in Growth Modeling for Educational Policy and Practice" (with Yeow Meng Thum, Megan Kuhfeld,

and Jim Soland) at the 15th meeting of the Society for Research of Educational Effectiveness, Washington, D.C., USA.

46. Montalbano, C., Allen, E., Greene, J. A., Murphy, P. K., Butler, A., Firetto, C. M., Wei, L., & **McNeish, D.** (2017, August). *Investigating changes in relational reasoning in small-group discourse across time and ability*. Paper presented at the 2017 annual meeting of the American Psychological Association (APA), Washington, D.C., USA

47. Smid, S., **McNeish, D.**, & van de Schoot, A.G.J. (2017, May). *Structural equation models with small samples: Bayesian vs maximum likelihood estimation*. Poster presented at the 29th Association for Psychological Science (APS) annual convention, Boston, MA, USA.

48. Smid, S., **McNeish, D.**, & van de Schoot, A.G.J. (2017, May). *Bayesian structural equation models with small samples. Part of the symposium entitled*, "What the Dutch can do with prior information" at the 2017 Modern Modeling Methods (M3) Conference, Storrs, CT, USA.

49. Muenks, K., **McNeish, D.,** & Wentzel, K. (2017, April). *Social support, goal pursuit, and classroom behavior of adolescents: a multi-level study*. Paper presented at the annual meeting of the Society for Research in Child Development, Austin, TX, USA.

50. Muenks, K., **McNeish, D.,** & Wentzel, K. (2017, April). *Social support, goal pursuit, and classroom behavior of adolescents: a multi-level study*. Paper presented at annual meeting of the American Educational Research Association (AERA), San Antonio, TX, USA.

51. Dumas, D. & **McNeish, D.** (2017, April) *Can we measure student potential?* Paper presented at the annual meeting of the American Educational Research Association (AERA), San Antonio, TX, USA.

52. Muenks, K., **McNeish, D.,** & Wentzel, K. (2016, August). *Relations between peer and teacher supports, motivation, and engagement in adolescent students*. Poster presented at the annual meeting of the American Psychological Association, Division 15, Denver, CO, USA.

53. **McNeish, D.,** & Dumas, D. (2016, May). *Non-linear growth models as measurement models: A second-order growth curve model for measuring potential.* Paper presented at the 2016 Modern Modeling Methods (M3) Conference, Storrs, CT, USA.

54. **McNeish, D.,** & Dumas, D. (2015, October). *A second-order model for understanding potential.* Poster presented at the annual meeting of the Society for Multivariate Experimental Psychology, Los Angeles, CA, USA.

55. **McNeish, D.** & Dumas, D.G. (2015, September). *A second-order structured latent curve model for measuring potential*. Presentation given at the Innovations in Latent Variable and Random Effects Modeling (ILVREM) Conference, Minneapolis, MN, USA.

56. **McNeish, D.**, & Harring, J.R. (2015, May). *Small sample robust model fit criteria in latent growth models with non-informative dropout*. Paper presented at the Modern Modeling Methods (M3) Conference, Storrs, CT, USA.

57. **McNeish, D.**, Radunzel, J., & Sanchez, E. I. (2015, April). *Relating non-cognitive student characteristics to ACT® scores: An application of sparsely clustered data methods.* Paper presented at the annual meeting of the American Educational Research Association (AERA), Division D: Measurement & Research Methodology, Chicago, IL, USA.

58. **McNeish, D.** (2015, April). *Using Lasso for selection and to assuage overfitting: A method long ignored in educational research.* Paper presented at the annual meeting of the American Educational Research Association (AERA), SIG: Educational Statisticians, Chicago, IL, USA.

59. **McNeish, D.**, An, J., & Hancock, G. R. (2015, April). *Factor indicator reliability and fit-indices: More evidence against golden rule cut-offs in latent variable models.* Paper presented at the annual meeting of the American Educational Research Association (AERA), SIG: Structural Equation Modeling, Chicago, IL, USA.

60. **McNeish, D.** (2015, April). *Bayesian latent growth models with small samples: An empirical Bayes alternative using data-dependent priors*. Paper presented at the annual meeting of the American Educational Research Association (AERA), SIG: Structural Equation Modeling, Chicago, IL, USA.

61. **McNeish, D.**, & Stapleton, L. M. (2015, April). *Clustered data mean you need multilevel models, right?*. Paper presented at the annual meeting of the American Educational Research Association (AERA), SIG: Multilevel Modeling, Chicago, IL, USA.

62. **McNeish, D.** (2014, September). *Small sample inference with latent growth models*. Presented at the Innovations in Latent Variable and Random Effects Modeling Conference, Colorado Springs, CO, USA.

63. **McNeish, D.** (2014, May). *Small sample size and growth curve models in the SEM framework: Assessing model fit criteria and parameter estimate bias.* Paper presented at the 2014 Modern Modeling Methods (M3) Conference, Storrs, CT, USA.

64. **McNeish, D.** (2014, April). *Variance component adjustment for latent growth and multi-level models in an SEM framework.* Paper presented at the annual meeting of the American Educational Research Association (AERA), SIG: Structural Equation Modeling, Philadelphia, PA, USA.

65. **McNeish, D.**, & Hancock, G. R. (2014, April). *The reliability paradox in multiple sample covariance structure models.* Paper presented at the annual meeting of the American Educational Research Association (AERA), SIG: Structural Equation Modeling, Philadelphia, PA, USA.

66. **McNeish, D.** (2014, April). *A new estimation method for item parameters in IRT with small sample sizes: Applying Kaplan-Meier to item response data.* Paper presented at the annual meeting of the National Council of Measurement in Education (NCME), Philadelphia, PA, USA.

67. **McNeish, D.**, & Harring, J. R. (2013, May). *Clustered data with a small number of clusters: Comparing the performance of model-based and design based approaches.* Paper presented at the 2013 Modern Modeling Methods Conference (M3), Storrs, CT, USA.

68. **McNeish, D.**, & Stapleton, L. M. (2013, April). *The effect of the number of clusters on multilevel model estimates: A review and illustration.* Paper presented at the annual meeting of the American Educational Research Association (AERA), SIG: Multilevel Modeling, San Francisco, CA, USA.

69. Hancock, G. R., & **McNeish, D.** (2013, April). *More powerful tests of simple interaction contrasts for the two way factorial design.* Paper presented at the annual meeting of the American Educational Research Association (AERA), SIG: Educational Statisticians, San Francisco, CA, USA.

Regional

70. **McNeish, D.**, & Stemler, S. E. (2011, April). *Key components in* the *measurement of teaching excellence.* Paper presented at the annual meeting of the New England Educational Research Organization (NEERO), New Bedford, MA, USA.

71. **McNeish, D.**, Kobrin, D., Cheng, J., & Lin, Y. (2011, April). *The association between demographics and bus disciplinary status in the Middletown school district.* Poster presented at the Connecticut State Department of Education 6th Annual Data Showcase, Waterbury, CT, USA.

72. **McNeish, D.** (2019, September). *Sum scores are factor scores.* Presented at Arizona State University for the Quantitative Design and Data Analysis seminar, Tempe, AZ, USA.

73. **McNeish, D.** (2019, January). *SEM model fit measures probably lie to you.* Presented at Arizona State University for the Quantitative Design and Data Analysis seminar, Tempe, AZ, USA.

74. **McNeish, D.** (2018, September). *Random effects are killing your mixture models.* Presented at Arizona State University for the Quantitative Design and Data Analysis seminar, Tempe, AZ, USA.

75. **McNeish, D.** (2016, February). *Lies your SEM fit indices have been telling you.* Presented at Utrecht University for the Research Methods working group, Utrecht, the Netherlands.

76. **McNeish, D.** (2016, January). *Data-dependent priors for growth models with small samples.* Presented at Utrecht University for the Bayesian Statistics working group, Utrecht, the Netherlands.

77. **McNeish, D.**, & Stapleton, L. M. (2015, October). *Clustered data: Are multilevel models really necessary?* Presented at the University of Maryland, Baltimore as part of the Maryland Longitudinal Data System Center Research Series, Baltimore, MD, USA.

78. Preston, A., Stapleton, L. M., & **McNeish, D.**, (2015, May). *Visual Representations of Data: Review and Recommendations.* Presented at the University of Maryland, Baltimore as part of the Maryland Longitudinal Data System Center Research Series, Baltimore, MD, USA.

79. **McNeish, D.**, An, J., & Hancock, G. R. (2015, March). *Factor indicator reliability and fit-indices: More evidence against golden rule cut-offs in latent variable models.* Presented at the University of Maryland, College Park as part of the Measurement, Statistics, and Evaluation program Research Day, College Park, MD, USA.

80. **McNeish, D.** (2014, December). *An EDMS student's advice for conducting research in graduate school.* Presented at the University of Maryland, College Park as part of the Monday Symposium on Measurement and Statistics, College Park, MD, USA.

81. **McNeish, D.**, Stapleton, L. M., & Preston, A. (2014, November). *Strategies for missing data in educational research.* Presented at University of Maryland, College Park as part of the Maryland Longitudinal Data System Center Research Series, Baltimore, MD, USA.

82. **McNeish, D.**, Radunzel, J., & Sanchez, E. I. (2014, August). *Relating non-cognitive student characteristics to the ACT® College Readiness Assessment.* Poster presented at Summer Intern Open House at ACT, Inc., Iowa City, IA, USA.

83. **McNeish, D.**, Radunzel, J., & Sanchez, E. I. (2014, July). *Relating non-cognitive student characteristics to the ACT® College Readiness Assessment.* Presented to the Statistical, Measurement, and Workforce Research Departments at ACT, Inc., Iowa City, IA, USA.

84. Stapleton, L. M., **McNeish, D.**, & Mao, X. (2013, December). *Approaches for causal inference in educational policy research.* Presented at University of Maryland, Baltimore as part of the Maryland Longitudinal Data System Center Research Series, Baltimore, MD, USA.

85. **McNeish, D.**, & Stapleton, L. M. (2013, April). *The effect of the number of clusters on multilevel model estimates: A review and illustration.* Paper presented at the University of Maryland Graduate Research Interaction Day (GRID), College Park, MD, USA.

86. **McNeish, D.** (2010, July). *Measuring adaptability in military personnel.* Poster presented at the annual poster session for the Quantitative Analysis Center and Howard Hughes Medical Institute Program, Middletown, CT, USA.

WORK EXPERIENCE

2013-2015　　Research Analyst, Maryland Longitudinal Data System Center
　　　　　　　Baltimore, MD, USA
　　　　　　　Supervisor: Laura Stapleton

2014　　　　　Statistical Research Intern, ACT, Inc.
　　　　　　　Iowa City, IA, USA
　　　　　　　Supervisors: Justine Radunzel and Edgar Sanchez

2013　　　　　Statistician/Psychometrics Intern, American Institutes for Research
　　　　　　　Washington, D.C., USA
　　　　　　　Supervisor: Harold Doran

2011-2013　　Research Assistant, University of Maryland
　　　　　　　College Park, MD, USA
　　　　　　　Supervisor: André Rupp

2009-2011	Research Assistant, Wesleyan University Psychometric Laboratory
	Middletown, CT, USA
	Lab Director: Steven Stemler

2010	Research Apprentice, Wesleyan University Quantitative Analysis Center
	Middletown, CT, USA
	Mentor: Steven Stemler

EXTERNAL CONSULTING

- United States' Coast Guard
- United States' Department of Defense
- Ohio Attorney General
- University of Toledo, Office of Legal Affairs
- Stanford University, School of Education
- University of Denver, Morgridge School of Education

ADVANCED TRAINING

1. Introduction to Machine Learning (Utrecht Univ., 2016)
2. Multilevel Structural Equation Modeling with xxM (Univ. of Conn., 2015)
3. Cross-Classified and Multiple Membership Models (Univ. of MD, 2014)
4. Analyzing Survey Data with Missing Values (Census Bureau, 2014)
5. Bayesian Non-Parametric Regression Modeling (Univ. of Conn., 2014)
6. Introduction to Quantile Regression (Univ. of Conn, 2013)
7. Bayesian Statistical Modeling (Univ. of MD, 2013)
8. Advanced Topics in Structural Equation Modeling (Univ. of MD, 2012)
9. Introduction to Structural Equation Modeling (Univ. of MD, 2012)

SERVICE

Profession

2021 –	External tenure/promotion evaluations (8 associate, 2 full)
	Countries: *USA, Germany, the Netherlands, Singapore*
2020	Small Sample Size Solutions Conference, scientific committee
2018	Small Sample Size Solutions Conference, organizing committee
2016	International Multilevel Conference, organizing committee
2014	NCME Annual Meeting Session Chair
2013 - 2014	AERA Structural Equation Modeling SIG Newsletter

University

2024 - 2027	Senator, College of Liberal Arts and Science (3-year term)
2025 - 2026	Chair, Curriculum Committee, College of Liberal Arts and Science
2024 - 2025	Curriculum Committee, College of Liberal Arts and Science
2022	Research Development panel on early career grant funding
2019 -	~15 hours/year informal consulting with faculty and students outside psychology

Department

2025 - 2026	Faculty Evaluation Committee (FEC)
2024 - 2025	Chair, Faculty Evaluation Committee (FEC)
2021	Third-year review committee, Gi-Yeul Bae
2021 - 2022	Member, Faculty Evaluation Committee (FEC)
2021	Personnel subcommittee, Roy Levy Psychology Dept. appointment
2020 - 2021	Planning and Advisory Committee (PAC)
2020 - 2021	Member, Faculty Evaluation Committee (FEC)
2019 - 2020	Planning and Advisory Committee (PAC)
2017 - 2018	Quantitative Methods Search Committee Member
2017	REACH Panelist: CV and cover letter writing
2017 -	~50 hours/year informal consulting with faculty and students

Ad-Hoc Reviewing

Total Ad Hoc Reviews: 319 for 56 journals
Total Reviews Coordinated as AE: 129
2026 Manuscripts Coordinated as AE: 2
2026 Reviews: 1
2025 Manuscripts Coordinated as AE: 18
2025 Reviews: 31

Methods & Statistics Journals (*n* = 29)

Advances in Methods and Practices in Psychological Science
Annals of Applied Statistics
Applied Psychological Measurement
Behavior Research Methods
Biometrical Journal
BMC Medical Research Methodology
British Journal of Mathematical and Statistical Psychology
Communications in Statistics: Simulation and Computation

Clinical Trials
Educational and Psychological Measurement
Epidemiologic Methods
Frontiers in Applied Mathematics & Statistics
Journal of Applied Statistics
Journal of Classification
Journal of Educational and Behavioral Statistics
Journal of Experimental Education
Journal of Statistical Simulation and Computation
Journal of Survey Statistics and Methodology
Journal of the American Statistical Association

Measurement: Interdisciplinary Research and Perspectives
Methodology
Multivariate Behavioral Research
Organizational Research Methods
Psychological Methods

Psychometrika
Statistical Methods in Medical Research
Statistics in Medicine
Statistical Papers
Structural Equation Modeling

Empirical Journals (*n* = 28)

American Educational Research Journal
American Psychologist
Annals of Behavioral Medicine
Annals of the International Communication Association
Child Development
Clinical Psychological Science
Contemporary Educational Psychology
Developmental Psychology
Educational Psychologist
European Journal of Work and Organizational Psychology
Evaluation Review
Group Dynamics
Journal of Clinical Child and Adolescent Psychology
Journal of Counseling Psychology

Journal of Consulting and Clinical Psychology
Journal of Educational Psychology
Journal of Personality Assessment
Journal of Psychopathology and Clinical Science
The Leadership Quarterly
Learning & Individual Differences
Nature Communications
Perspectives on Psychological Science
Prevention Science
Psychological Assessment
Psychological Review
Psychological Science
Review of Educational Research
Studies in Higher Education

Grant Proposals
Dutch Research Council (NWO), Vidi Program
German Research Foundation (DFG)
National Science Foundation (NSF); Methodology, Measurement, and Statistics program
Natural Sciences and Engineering Research Council of Canada (NSERC)
Swiss National Science Foundation (SNSF)

Conferences
Advances in Multilevel Modeling for Educational Research
Society for Multivariate Experimental Psychology

Book Series
Guilford Press, Methodology in Social Sciences Series
Routledge, Multivariate Applications Book Series