Frank D. Mann, Ph.D.

https://www.frankdmann.com

RESEARCH POSITIONS

Senior Research Scientist 2024 – Present
Department of Medicine, Stony Brook University

Research Assistant Professor 2021 – Present
Family, Population, and Preventive Medicine, Stony Brook University

Postdoctoral Associate 2020 – 2021
Family, Population, and Preventive Medicine, Stony Brook University

Statistical Consultant 2019 – 2020
Minnesota Center for Practice Transformation, St. Paul, Minnesota

Postdoctoral Associate 2017 – 2020
Department of Psychology, University of Minnesota, Twin Cities

Graduate Research Assistant: Developmental Behavior Genetics 2014 – 2017
Department of Psychology, University of Texas - Austin

Visiting Scientist: Queensland Institute of Medical Research Summer 2014
Genetic Epidemiology, Molecular Epidemiology and Neurogenetics Labs

Graduate Research Assistant: Lifespan Development Lab 2013 – 2014
Department of Psychology, University of Texas - Austin

TEACHING POSITIONS

Adjunct Instructor 2023
Family, Population, and Preventive Medicine, Stony Brook Medicine

Adjunct Instructor 2019 – 2020
Department of Psychology, Augsburg University

Guest Lecturer 2019
Department of Psychology, University of Minnesota – Twin Cities

Graduate Teaching Assistant 2013 – 2016
Department of Psychology, University of Texas – Austin

EDUCATION

University of Texas at Austin, Austin, Texas 2013 – 2017
Ph.D., Psychology (GPA: 4.00)

University of Texas at Austin, Austin, Texas 2013 – 2015
M.A., Psychology (GPA: 4.00)

New College, Oxford, United Kingdom 2009 – 2010
Selected Course Work: Cognitive Neuroscience,
Personality Psychology, History of Modern Philosophy

State University of New York, Brockport, New York 2006 – 2009
B.S., Psychology & Philosophy (GPA: 3.87)

RESEARCH SUPPORT

Active Research Support

2. **CDC/NIOSH – 1R21OH013159-01** 9/1/2026 – 10/31/2028
   Title: "Dynamic PTSD-Related Cognitive Risk in Aging World Trade Center Responders" **Role:** PI

1. **NIH - R01DK137805** 1/1/2024 – 12/31/2028
   Title: "Applying a Life Course Approach to Assess the Impact of Neighborhood and Interpersonal Discrimination on Allostatic Load" **Role:** Consultant (PI: Cuevas)

Past Research Support

5. **NIH LRP – 1L60AG074424-02** 11/1/2024 – 10/31/2026
   Title: "*Machine learning prediction models and phenome-exposome risk scores for cognitive decline: Rethinking the Link Between Stress and Alzheimer's Disease and Related Dementias (ADRD)*" **Role:** PI

4. **CDC/NIOSH – U01OH012258** 9/1/2021 – 8/30/2025
   Title: *"Cognition and Neuropathology in World Trade Center-exposed FDNY, NYPD, and Construction Worker Responders."* **Role:** Co-I (MPI: Clouston & Hall)

3. **CDC/NIOSH – 1R21AG074705-01** 08/15/2021 – 05/01/2024
   Title: *"Trauma Exposure and Cognitive Impairment: Understanding Polygenic Liability and the Causative and Moderating Effects of Exposure Severity, PTSD, and Psychiatric Comorbidity in WTC Responders."* **Role:** PI

2. **NIH LRP – 1L60AG074424-01** 8/1/2021 – 7/31/2023
   Title: *"Cumulative Stress and Polygenic Risk for Alzheimer's Disease and Related Dementia (ADRD): Understanding Stress as a Mediator and Moderator of Genetic Liability."* **Role:** PI

1. **SUNY Research Center – RSG-201061.2** 10/15/2020 – 4/14/2022
   Title: *"Using Machine Learning to develop CKD risk prediction models in patients with PTSD."* **Role:** Co-I (PI: Koraishy)

SCHOLARLY WORKS

Peer-Reviewed Scientific Articles

77. Clouston, S.A.P., Huang, C.,, Askarov, T., Wang, Y., Chaudhry, Z., Carr, M.A., Yang, Y., West, S., **Mann, F.D.**, Marquez, R., Vaska, P., Meliker, J., Gandy, S., Lucchini, R.G., Luft, B.J., for the Alzheimer's Disease Neuroimaging Initiative. (In Press) World Trade Center neurotoxicant exposure severity is associated with cortical thinning and regional brain atrophy: A neuroimaging study of general responders at midlife. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association.*

76. Kuan. P., **Mann F.D.**, Yang. X., Kotov, R., Clouston, S.A.P., Illkayeva, O., Muehlbauer, M., Newgard, C., Luft, B.J., (2026) Integrated proteomic and metabolomic analyses implicate redox-metabolic pathways in PTSD-associated multisystem disease and accelerated aging. *Nature Communications*. DOI: 1038/s41467-026-74757-8

75. Sampson L., Song Y., **Mann F.D.**, Zeig-Owens R., Hall C.B., Mueller A.K., Choi J., Fels A.M., Fajfer M.D., Melendez OA, Hennington C.M., Arneaud C.W., Prezant D.J., Luft B.J., Clouston S.A.P. (2026) Posttraumatic stress disorder and handgrip strength among World Trade Center Firefighters and Emergency Medical Responders. *International Journal of Environmental Research and Public Health*. DOI: 10.3390/ijerph23040413

74. **Mann, F.D.**, Clouston, S.A.P. Choi, J., Hall, C.B., Zeig-Owens, R., Christodoulou, C., Fels, A.M., Fajfer, M.D., Melendez, O.A., Hennington, C.M., Arneaud, C.W., Zou, Y.F., Fontana, A.E., Barber, A., Mueller, A.K., Carr, M.A., Prezant, D.J., Luft, B.J. (2025) Posttraumatic Stress Disorder, Major Depression, and Mild Cognitive Impairment: A Cohort Study of World Trade Center Responders. *Psychiatry Research.* DOI: 10.1016/j.psychres.2025.116827

73. Zhou, J.W., Huang, C., Vaska, P., Kritikos, M., Santiago-Michels, S., Barber, A., Armstrong, M., Carr, M.A., **Mann, F.D.**, Kuan, P.F., Horton, M., Lucchini, R., Kotov, R., Clouston, S.A.P., & Luft, B.J. (2025) Reduced gray-white contrast in chronic posttraumatic stress disorder in World Trade Center responders. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. DOI: 10.1016/j.bpsc.2025.10.018

72. Wänström, L., O'Keefe, P., Muniz-Terrera, G., Voll, S., **Mann, F.D.**, Clouston, S.A.P., Hofer, S., Rodgers, J.L. (2025) Family-Level Intelligence and Maternal Health: A Cross-Cohort, Cross-Generational Longitudinal Study Using the NLSY. *Intelligence*. DOI: 10.1016/j.intell.2025.101966

71. Kotov, R., Gonas, K.G., **Mann, F.D.** (2025) Course in Diagnosis of Psychotic Disorders: Research Agenda. *Schizophrenia Bulletin*. DOI: 10.1093/schbul/sbaf175

70. Clouston, S.A.P., Meliker, J., **Mann, F.D.**, Kuan, P., Yang, Y., Trina, F.M., Sampson, L., Boffetta, P., Edelman, N.H., Luft, B.J. (2025) Lung Cancer Incidence after 9/11/2001 among World Trade Center responders: A Prospective Cohort Study. *JAMA Network Open*. DOI: 10.1001/jamanetworkopen.2025.36655

69. Ong, A.D., **Mann, F.D.**, Kubzansky, L.D. (2025) Cumulative Social Advantage is Associated with Slower Epigenetic Aging and Lower Systemic Inflammation. *Brain, Behavior, & Immunity - Health*. DOI: 10.1016/j.bbih.2025.101096

68. **Mann, F.D.**, Waszczuk, M.A., Clouston, S.A.P., Bromet, E.J., Marx, B.P., Shabalin, A.A., Docherty, A.R., Kuan, P., Carr, M.A., Yang, X., Luft, B.J., Kotov, R. (In Press) Polygenic Risk and Exposure Severity Predict Trajectories of PTSD: A Prospective Cohort Study. *Molecular Psychiatry.* DOI: 10.1038/s41380-025-03235-2

67. Freilich, C.D., **Mann, F.D.**, Markon, K.E., Cole, S.W., Kruger, R.F. (In Press) Predicting Epigenetic Aging with the Transdiagnostic Internalizing Spectrum versus Specific Internalizing Syndromes. *World Psychiatry.* DOI: 10.1002/wps.21364

66. Kritikos, M., Rama, T., Diminich, E., Chuan, H., Vaska, P., Zhou, J.W., Zubari, V., Christodoulou, C., Allen, C. Kotov, R., **Mann, F.D.**, Clouston, S.A.P. Grey matter volume associations with Montreal Cognitive Assessment performance in an ADNI cohort of early-onset Mild Cognitive Impairment and Alzheimer's Disease. *Journal of Dementia and Alzheimer's Disease.* DOI: 10.3390/jdad2030024

65. Barber, A., Chacon, R., **Mann, F.D.**, Kritikos, M., Kuan, P., Meliker, J., Carr, M., Xiaohua, Y., Clouston, S.A.P. Luft, B.J. (2025) Increased AB40 levels in plasma associated with severity of exposure to airborne pollutants at the World Trade Center: A cross-sectional study of neurological biomarkers. *Journals of Gerontology: Biological Sciences.* DOI: 10.1093/gerona/glaf135

64. **Mann, F.D.**, Waszcuk, M.A., Clouston, S.A.P. Feltman, S., Ruggero, C.J., Marx, B.P., Schwartz, J.E., Bromet, E.J., Luft, B.J., Kotov, K. (2025) Long-Term Trajectories of Posttraumatic Stress Disorder Symptoms: A 20-Year Longitudinal Study of World Trade Center Responders. *Nature Mental Health.* DOI: 10.1038/s44220-025-00419-1

63. Markon, K.E., **Mann, F.D.**, Freilich, C.D., Cole, S.W., Kruger, R.F. (2025) Aging Dimensions and Markers as Relative Predictors of Mortality in a Longitudinal Epidemiological Sample. *PLOS ONE.* DOI: 10.1371/journal.pone.0324156

62. Ong, A.D., **Mann, F.D.** (2025) Cumulative Social Advantage Across the Lifespan: Examining the Convergent and Predictive Validity of a Multidimensional Hierarchical Construct for Health and Longevity. *American Psychologist.* DOI: 10.1037/amp0001513

61. Ringwald, W.R., Feltman, S. Clouston S., **Mann, F.D.**, Ruggero, C., Bromet, E.J., Luft, B.J. (2025) Stress dynamics that maintain posttraumatic stress disorder across 20 years. *Psychological Medicine*. DOI: 10.1017/S0033291725000686

60. Bano, R., Clouston, S.A.P., **Mann, F.D.**, Khan, B.A., Carr, M.A., Hedayati, S.S., Luft, B.J. (2025). Cognitive Impairment: A Novel Risk Factor for Rapid Kidney Function Decline and Incident CKD in Middle-Aged Adults. Kidney360. DOI: 10.34067/KID.0000000880

59. Yang, Y., Meliker, J., Richmond, L.L., **Mann, F.D.**, Kritikos, M., Smith, D.M., ... & Clouston, S.A.P. (2025). World Trade Center Response Activities and Cognitive Health: A Moderated Mediation Study of the Role of Surgical/Nuisance Dust Mask Usage. *NeuroToxicology.* DOI: 10.1016/j.neuro.2025.02.002

58. **Mann, F.D.**, Mueller, A.K. Zeig-Owens, R., Choi, J., Prezant, D.J., Carr, M.M., Fels, A.M., Hennington, C.M., Armstrong, M.P., Barber, A., Fontana, A.E., Kroll, C.H.,

Chow, K., Melendez, O.A., Smith, A.J., Luft, B.J., Hall, C.D., Clouston, S.A.P. (2024) Prevalence of Mild and Severe Cognitive Impairment in World Trade Center Exposed Fire Department of the City of New York (FDNY) and General Emergency Responders. *American Journal of Industrial Medicine*. DOI: 10.1101/2024.08.04.24311457

57. O'Keefe, P., Muniz-Terrera, G., Voll, S., **Mann, F.D.**, Clouston, S., Wanström, L., Rodgers, J. L., & Hofer, S. M. (2024). Inter-Cohort Shifts in Chronic Disease, Dementia, and Mortality. *Biodemography and Social Biology*. DOI: 10.1080/19485565.2024.2419518

56. Freilich, C.D., Markon, K.E., **Mann, F.D.**, Cole, S.W., Krueger, R.F. (2024) Associations Between Loneliness, Epigenetic Age Acceleration, and Multimorbidity Through Older Adulthood. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences.* DOI: 10.1093/geronb/gbae169

55. Choi, J., Hall, C.B., Clouston, S.A.P., Cleven, K.L., **Mann, F.D.**, Luft, B.J., Zammit, A.R. (2024). Cross-Sectional Association Between Posttraumatic Stress and Cognition is Moderated by Pulmonary Functioning. *American Journal of Industrial Medicine.* DOI: 10.1002/ajim.23631

54. Markon, K.E., **Mann, F.D.**, Freilich, C.D., Cole, S.W., Krueger, R.F. (2024) Associations Between Epigenetic Age Acceleration and Longitudinal Measures of Psychosocioeconomic Stress and Status. *Social Science and Medicine.* DOI: 10.1016/j.socscimed.2024.116990

53. Zhang, Y., Rodgers, J.L., O'Keefe, P., Terrera, G.M., Voll, S., **Mann, F.D.**, Hofer, S.M., Clouston, S. (2024) The Flynn Effect in Short-Term Cognitive Declines of Americans Aged 65 Years and Older. *Psychology and Aging.* DOI: 10.1037/pag0000833

52. Clouston, S.A.P., **Mann, F.D.**, Meliker, J., Kuan, P., Kotov, R., Richmond, L.L., Babalola, T., Kritikos, M., Yang, Y., Carr, M.A., Luft, B.J. (2024) Incidence of early onset dementia in severely exposed World Trade Center responders. *JAMA Network Open*. DOI: 10.1001/jamanetworkopen.2024.16504

51. **Mann, F.D.,** Cuevas, A.G., Clouston, S.A.P., Freilich, C.D., Krizan, Z., Zuber, S., Wänström, L., Muniz-Terrera, G., O'Keefe, P., Voll, S., Hofer, S., Rodgers, J.L., Krueger, R.F. (2024) A Novel Approach to Model Cumulative Stressors: Area Under the s-Factor Curve. *Social Science and Medicine*. DOI: 10.1016/j.socscimed.2024.116787

50. O'Keefe, P., Muniz-Terrera, G., Voll, S., Clouston, S., Wanström, L., **Mann, F. D.**, ... Hofer, S. M. (2023). Cohort changes and sex differences after age 50 in cognitive variables in the English Longitudinal Study of Ageing. *The Journals of Gerontology: Series B.* DOI: 10.1093/geronb/gbad089

49. Chen, A.P.F., Zahinoor, I., **Mann, F.D.**, Bromet, E.J., Clouston, S.A.P., Luft, B.J. (2023) Behavioral Impairments and Increased Risk of Cortical Atrophy Risk Scores Among World Trade Center Responders. *Journal of Geriatric Psychiatry and Neurology.* DOI: 10.1177/08919887231195234

48. Zlatan, K., Freilich, C.D., Krueger, R.F., & **Mann, F.D.** (2023) Linking Genetic Foundations of Sleep Disturbances to Personality Traits: A Study of Mid-Life Twins. *Journal of Sleep Research*. DOI: 10.1111/jsr.13903

47. Wänström, L., O'Keefe, P., Clouston, S.A.P., **Mann, F.D.**, Muniz-Terrera, G., Voll, S., Zhang, Y., Hofer, S. Rodgers, J.L. (2023) It Runs in the Family: Testing for Longitudinal Family Flynn Effects. *Journal of Intelligence.* DOI: 10.3390/jintelligence11030050

46. Cuevas, A.G., **Mann, F.D.**, & Krueger, R.F. (2023). Discrimination Exposure and Polygenic Risk for Obesity in Adulthood: Testing Gene-Environment Correlations and Interactions. *Lifestyle Genomics*. DOI: 10.1159/000529527

45. Cuevas, A.G., Freilich, C.D., **Mann, F.D.**, Cole, S.W., & Krueger, R.F. (2023). Intersectional Vulnerability in the Relationship Between Discrimination and Inflammatory Gene Expression. *Brain, Behavior, & Immunity – Health*. DOI: 10.1016/j.bbih.2022.100580

44. Hobbs, K.A., **Mann, F.D.**, Latzman, R.D., Zimmerman, J., Jaeger, U., Markon, K., Krueger, R.F. (2023). Pathological Personality in Relation to Multiple Domains of Quality of Life and Impairment: Evidence for the Specific Relevance of the Maladaptive Poles of Major Trait Domains. *Journal of Psychopathology and Clinical Science.* DOI: 10.1037/abn0000810

43. Freilich, C.D., **Mann F.D.**, South S.C. Krueger, R.F. (2022) Comparing Phenotypic, Genetic, and Environmental Associations between Personality and Loneliness. *Journal of Research on Personality.* DOI: 10.1016/j.jrp.2022.104314

42. **Mann, F.D.**, Clouston, S.A.P., Cuevas, A., Waszczuk, M.A., Pei-Fen, K., Carr, M.A., Docherty, A.R., Shabalin, A.A., Gandy, S.E., Luft, B.J. (2022). Polygenic Liability, Exposure Severity, and Post-Traumatic Stress Disorder Predict Cognitive Impairment in World Trade Center Responders. *Journal of Alzheimer's Disease.* DOI: 10.3233/JAD-220892

41. Koraishy, F.M., **Mann, F.D.**, Waszczuk, M.A., Kuan, P., Jonas, K. Yang, X., Docherty, A., Shabalin, A., Clouston, S.A.P., Kotov, R., Luft, B. (2022) Polygenic Association of Glomerular Filtration Rate Decline among World Trade Center Responders. *BMC Nephrology.* DOI: 10.1186/s12882-022-02967-5

40. Patterson, M.W., Pivnick, L., **Mann, F.D.**, Grotzinger, A.D., Monahan, K.C., Laurence, S.D., Oosterhoff, B., Tackett, J.L., Tucker-Drob, E.M., Harden, K.P. (2022) A mixed-

methods approach to refining and measuring the construct of positive risk-taking in adolescence. *Journal of Research on Adolescence*. DOI: 10.1111/jora.12807

39. Freilich, C.D., **Mann, F.D.**, Krueger, R.F. (2022) Comparing Associations Between Personality and Loneliness at Midlife Across Three Cultures. *Journal of Personality.* DOI: 10.1111/jopy.12765

38. Cuevas, A.G., **Mann, F.D.**, Krueger, R.F. (2022) The Weight of Childhood Adversity: Evidence that Childhood Adversity Moderates the Impact of Genetic Risk on Waist Circumference in Adulthood. *International Journal of Obesity.* DOI: 10.1038/s41366-022-01191-3

37. **Mann, F.D.**, Cuevas, A.G., Krueger, R.F. (2021) Cumulative stress: A general "s-factor" in the structure of stress. *Social Science and Medicine.* DOI: 10.1016/j.socscimed.2021.114405

36. Koraishy, F.M., Coca, S., Cohen, E., Scherrer, J.F., **Mann, F.D.**, Luft, B., Clouston, S. (2021) Post-traumatic stress disorder (PTSD) is associated with longitudinal change in glomerular filtration rate (GFR) in World Trade Center (WTC) responders. *Psychosomatic Medicine.* DOI: 10.1097/PSY.0000000000000968

35. **Mann, F.D.**, Krueger, R.F., Clouston, S., Cole, S. (2021) Demographic correlates of inflammatory and antiviral gene expression in the Study of Midlife in the United States (MIDUS). *Biodemography and Social Biology.* DOI: 10.1080/19485565.2021.1983761

34. O'Keefe, P., **Mann, F.D.**, Clouston, S., Voll, S., Muniz-Terrera, G., Lewis, N., Wanström, L., Hofer, S.M., Rodgers, J.L. (2021) Getting a grip on secular changes: Age-period-cohort modeling of grip strength in the English Longitudinal Study of Ageing. *Journal of Gerontology: Medical Sciences.* DOI: 10.1093/gerona/glab192

33. Chen. A.P.F, Clouston, S.A.P., Kritikos, M., Richmond, L., Meliker, J., **Mann, F.D.**, Santiago-Michels, S., Pellecchia, A.C., Carr, M.A., Kuan. P., Bromet, E.J., Luft, B.J. (2021) A deep learning approach for monitoring parietal-dominant Alzheimer's disease in World Trade Center responders at midlife. *Brain Communications.* DOI: 10.1093/braincomms/fcab145

32. Clouston, S.A., Muniz-Terrera, G, Rodgers, J., O'Keefe, P., **Mann, F.D.**, Lewis, N.A., Wänström, L., Hofer, S.M. (2021) Cohort and Period Effects as Explanations for Declining Dementia Trends and Cognitive Aging. *Population and Development Review*. DOI: 10.1111/padr.12409

31. **Mann, F.D.,** DeYoung, C.G., & Krueger, R.F. (2021) Patterns of cumulative continuity and maturity in Big Five personality and well-being: Evidence from a large longitudinal sample of adults. *Personality and Individual Differences*. DOI: 10.1016/j.paid.2019.109737

30. **Mann, F.D.**, DeYoung, C.G., Tiberius, V., & Krueger, R.F. (2021) Stability and Well-Being: Associations among the Big Five domains, metatraits, and three kinds of well-being in a large sample. *Journal of Personality.* DOI: 10.1111/jopy.12611

29. Hobbs, K.A., **Mann. F.D.**, Cole, S.W., & Krueger, R.F. (2021) Big Five Personality and CTRA gene expression: Lack of association in a midlife sample of US adults (MIDUS-Refresher). *Personality and Individual Differences*. DOI: 10.1016/j.paid.2020.109908

28. Cuevas, A.G., **Mann, F.D.**, Williams, D.R., & Krueger, R.F. (2021) Discrimination and anxiety: Using multiple polygenic scores to control for genetic liability. *Proceedings of the National Academy of Sciences.* DOI: 10.1073/pnas.2017224118

27. South, S.C., **Mann, F.D.**, Krueger, R.F. (2021) Marital Satisfaction as a Moderator of Molecular Genetic Influences on Mental Health. *Clinical Psychological Science.* DOI: 10.1177/2167702620985152

26. **Mann, F.D.**, Krueger, R.F., Vohs, K.D. (2020) Personal Economic Anxiety in Response to COVID-19. *Personality and Individual Differences*. DOI: 10.1016/j.paid.2020.110233

25. **Mann, F.D.**, Atherton, O.E., DeYoung, C.G. DeYoung, Krueger, R.F., Robbins, R.W. (2020) Big five personality traits and common mental disorders within a hierarchical taxonomy of psychopathology: A longitudinal study of Mexican-origin youth. *Journal of Abnormal Psychology.* DOI: 10.1037/abn0000633

24. Martin, J.D., **Mann F.D.**, Krueger, R.F. (2020) Low cardiac vagal control is associated with genetic liability for elevated triglycerides and risky health behaviors. *Biological Psychology*. DOI: 10.1016/j.biopsycho.2020.107892

23. Docherty A.R., Shabalin A.A., Adkins D.E., **Mann F.**, Krueger R.F., Bacanu S., Campbell A., Hayward C., Porteous D., McIntosh A., Kendler K. (2020) Molecular genetic risk for psychosis is associated with psychosis risk symptoms in a population-based UK cohort: Findings from Generation Scotland. *Schizophrenia Bulletin*. DOI: 10.1093/schbul/sbaa042

22. Harden, K. P., Engelhardt, L. E., **Mann, F. D.**, Patterson, M. W., Grotzinger, A. D., Savicki, S. L., ... & Tucker-Drob, E. M. (2020) Genetic Associations Between Executive Functions and a General Factor of Psychopathology. *Journal of the American Academy of Child & Adolescent Psychiatry*. DOI: 10.1016/j.jaac.2019.05.006

21. **Mann, F.D.**, DeYoung, C.G., Tiberius, V., & Krueger, R.F. (2019) Social exposures and well-being: Using multivariate twin data to rule-out heritable and shared environmental variation. *Journal of Research in Personality.* DOI: 10.1016/j.jrp.2019.10388

20. **Mann, F.D.**, Tackett, J.F., Tucker-Drob, E.M., & Harden, K.P. (2018) Callous-unemotional traits moderate genetic and environmental influences on rule-breaking and

aggression: evidence for gene × trait interaction. *Clinical Psychological Science*. DOI: 10.1177/2167702617730889

19. Patterson, M.W., **Mann, F.D.**, Grotzinger, A.D., Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (2018) Genetic and Environmental Influences on Internalizing Psychopathology Across Age and Pubertal Development. *Developmental Psychology*. DOI: 10.1037/dev0000578

18. **Mann, F.D.**, Paul, S., Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (2018) Personality risk for antisocial behavior: Testing the intersections between callous-unemotional traits, sensation seeking and impulse control. *Development and Psychopathology*. DOI: 10.1017/S095457941700061X

17. Mõttus, R., Briley, D.A., Zheng, A., **Mann, F.D.**, Engelhardt, L.E., Tackett, J.L., Harden, K.P., & Tucker-Drob, E.M. (2019) Kids becoming less alike: A Behavioral Genetic Analysis of Developmental Increases in Personality Variance from Childhood to Adolescence. *Journal of Personality and Social Psychology: Personality Processes and Individual Differences*. DOI: 10.1037/pspp0000194

16. Grotzinger, A.D., Briley, D.A., Engelhardt, L.E., **Mann, F.D.**, Patterson, M.W., Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (2018) Genetic and Environmental Influences on Pubertal Hormones in Human Hair across Development. *Psychoneuroendocrinology*. DOI: 10.1016/j.psyneuen.2018.02.005

15. Grotzinger, A., **Mann, F.D.**, Patterson, M.W., Tackett J.L., Tucker-Drob, E.M., & Harden, P. (2018) Hair and salivary testosterone, hair cortisol and externalizing behavior in adolescents. *Psychological Science*. DOI: 10.1177/0956797617742981

14. Grotzinger, A., **Mann, F.D.**, Patterson, M.W., Herzhoff, K., Tackett, J.L., Tucker-Drob, E.M. & Harden, K.P. (2018) Twin models of environmental and genetic influences on pubertal development, salivary testosterone, and estradiol in adolescence. *Clinical Endocrinology*. DOI: 10.1111/cen.13522

13. Harden, K.P., **Mann, F.D.**, Grotzinger, A., Patterson, M.W., Steinberg, L., Tackett, J.L., & Tucker-Drob, E.M. (2018) Developmental Differences in Reward Sensitivity and Sensation Seeking in Adolescence: Testing Sex-Specific Associations with Gonadal Hormones and Pubertal Development. *Journal of Personality and Social Psychology: Personality Processes and Individual Differences.* DOI: 10.1016/j.paid.2016.09.018

12. **Mann, F. D.**, Engelhardt, L., Briley, D. A., Grotzinger, A. D., Patterson, M. W., Tackett, J. L., ... & Harden, K.P. (2017) Sensation seeking and impulsive traits as personality endophenotypes for antisocial behavior: Evidence from two independent samples. *Personality and Individual Differences*. DOI: 10.1016/j.paid.2016.09.018

11. Harden, K.P., Kretsch, N., **Mann, F.D.**, Herzhoff, K., Tackett, J.L., Steinberg, L., & Tucker-Drob, E.M. (2017) Beyond dual systems: A genetically-informed, latent factor

model of behavioral and self-report measures related to adolescent risk-taking. *Developmental Cognitive Neuroscience*. DOI: 10.1016/j.dcn.2016.12.007

10. Patterson, M.W., Cheung, A., **Mann, F.D.**, Tucker-Drob, E.M., & Harden, K.P. (2017) Multivariate analysis of genetic and environmental influences on parenting in adolescence. *Journal of Family Psychology*. DOI: 10.1037/fam0000298

9. Tucker-Drob, E.M., Grotzinger, A., Briley, D.A., Engelhardt, L.E., **Mann, F.D.**, Patterson, M.W., Kirschbaum, C., Adam, E.A., Church-Lang, J.A., Tackett, J.L. & Harden, K.P. (2017) Genetic influences on hormonal markers of chronic HPA function in human hair. *Psychological Medicine.* DOI: 10.1017/S0033291716003068

8. **Mann, F.D.**, Patterson, M.W, Grotzinger, A.D., Kretsch, N. Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (2016) Sensation seeking, peer deviance and genetic influences on adolescent delinquency: Evidence for person-environment correlation and interaction. *Journal of Abnormal Psychology*. DOI: 10.1037/abn0000160

7. Engelhardt, L., **Mann F.D.**, Briley, D.A., Church-Lang, J., Harden, K.P. & Tucker-Drob, E.M. (2016) Strong genetic overlap between executive functions and intelligence. *Journal of Experimental Psychology: General*. DOI: 10.1037/xge0000195

6. Tucker-Drob, E.M., Briley, D.A., Engelhardt, L.E., **Mann, F.D.**, & Harden, K.P. (2016) Genetically mediated associations between measures of childhood character and academic achievement. *Journal of Personality and Social Psychology*. DOI: 10.1037/pspp0000098

5. **Mann, F.D.**, Briley, D.A., Tucker-Drob, E.M., & Harden, K.P. (2015) A behavioral genetic analysis of callous-unemotional traits and big five personality in adolescence. *Journal of Abnormal Psychology*. DOI: 10.1037/abn0000099

4. Harden, K.P, & **Mann, F.D**. (2015) Biological risk for adolescent externalizing: Integrating insights from behavioral genetics and developmental neuroscience. *Child Development Perspectives*. DOI: 10.1111/cdep.12135

3. **Mann, F.D.**, Kretsch, N., Tackett, J.L., Harden, K.P., & Tucker-Drob, E.M. (2015) Person-environment interactions predict adolescent delinquency: Sensation seeking, peer deviance and parental monitoring. *Personality and Individual Differences*. DOI: 10.1016/j.paid.2014.11.055

2. Harden, K., Patterson, M., Briley, D., Engelhardt, L., Kretsch, N., **Mann, F.D.**, Tackett, J., & Tucker-Drob, E.M. (2015) Developmental changes in genetic and environmental influences on rule-breaking and aggression: Age and pubertal development. *Journal of Child Psychology and Psychiatry*. DOI: 10.1111/jcpp.12419

1. Engelhardt. L., Briley, D., **Mann, F.**, Harden, K., & Tucker-Drob, E.M. (2015) Genes unite executive functions in childhood. *Psychological Science*. DOI: 10.1177/0956797615577209

Articles Submitted for Peer-Review

9. Ong, A.D., **Mann, F.D.**, Kubzansky, L.D. (Submitted) Mattering to Others and Epigenetic Aging.

8. Markon, K.E., Cole, S., Freilich, C.D., **Mann, F.D.**, Shabalin, A.A., Docherty, A.R., Krueger, R.F. (Submitted) Polygenic Influences on Personality and Mood Level Change over Adulthood.

7. Alfano, J., Fiorillo, T., Meliker, J.R., **Mann, F.D.**, Yuan, Y., Kuan, P.F., Onix, M., Yang, X., Liyanapatirana, C., Throp, E., Schilling K., Clouston, S.A.P. Luft, B.J. (Submitted) Biomarkers of Environmental Exposures Among First Responders in the World Trade Center Attack.

6. Goktas, S., **Mann, F.D.**, Ong, A.D. (Submitted) Exploring the Relationship Between Genetic Propensity for Educational Attainment, Positive Affect, and Sleep Quality: The Mediating Role of Education.

5. **Mann, F.D.**, Kuan, P., Yang, X. Kotov, R., Clouston, S.A.P., Luft, B.J. (Submitted) Proteomics of PTSD Symptom Trajectories in World Trade Center Responders.

4. **Mann, F.D.**, Freilech, C.D., Markon, K.E., Kranz, E.O., Slopen N., Chang V.W., Xu V., Pagan J.A., Willet W.C., Clouston, S.A.P., Krueger, R.F., & Cuevas, A.G. (Submitted) Racial Discrimination and Adiposity in Late Childhood: A Longitudinal Co-Twin-Control Study.

3. Clouston, S.A.P., Askarov, T., Huang, C., Vaska, P., Wang, Y., West, S., Barber, A., Carr, M., **Mann, F.D.**, Meliker, J., Luft, B.J. (Submitted) Evidence of Cerebral Atrophy after Severe World Trade Center Exposure.

2. **Mann, F.D.**, & Markon, K.E. (Submitted) The False Allure of Causal Indicator Models.

1. **Mann, F.D.,** Cuevas, A.G., Ong, A.D., Corely, S.S., Freilich, C.D., Markon, K.E., Krueger, R.F., Clouston, S.A.P. (Submitted) Racial Disparities in Cognitive Health & Mild Cognitive Impairment: Effects of Income, Education, and Discrimination.

Papers Presented at Academic Conferences

35. **Mann, F.D.**, Clouston, S.A.P., Feltman, S., Kotov, R., Carr, M.A., Luft, B.J. (September 2026) A Longitudinal Instrumental Variable Analysis of Posttraumatic Stress Disorder and Cognitive Impairment in World Trade Center Responders. *International Society for Traumatic Stress Studies 42nd Annual Meeting,* San Antonio, TX.

34. **Mann, F.D.** (September 2025) PTSD, Depression, and Mild Cognitive Impairment: A Cohort Study of World Trade Center Responders. *International Society for Traumatic Stress Studies 41st Annual Meeting*, Baltimore, MD.

33. **Mann, F.D.,** & Ong, A.D. (May 2025) Cumulative Social Advantage Slows Biological Aging and Reduces Systemic Inflammation. *MIDUS Annual Meeting*. Madison, WI.

32. **Mann, F.D.,** Cuevas, A.G., Ong, A.D., Corely, S.S., Freilich, C.D., Markon, K.E., Krueger, R.F., Clouston, S.A.P. (May 2024) Racial Disparities in Cognitive Health & Mild Cognitive Impairment: Effects of Income, Education, and Discrimination in the Midlife in the United States (MIDUS) Study. *MIDUS Annual Meeting*. Madison, WI.

31. Ong, A. D., **Mann, F.D** (May 2024). Cumulative Social Advantage: A Hierarchical Assessment of Social Support Dimensions Predicting Health and Mortality. *MIDUS Annual Meeting*. Madison, WI.

30. Freilich, C. D., **Mann, F.D.**, South, S. C., McGue, M., Roisman, G. I., & Krueger, R. F., (April 2024). Genetic and Environmental Contributions to the Associations between Personality and Loneliness: Evidence from Two Twin Studies. T*he 4th World Association for Personality Psychology (WAPP) Conference*, Curaçao.

29. **Mann, F.D.** (May 2023) Measuring the Accumulative Impact of Psychosocial Stressors. *MIDUS Annual Meeting*. Madison, WI.

28. **Mann, F.D.**, Clouston, S.A.P., Cuevas, A., Waszczuk, M., Luft, B. (April 2023) Post-Traumatic Stress and Cognitive Impairment: A Single-Sample Mendelian Randomization Study of World Trade Center Responders. *International Conference on Alzheimer's Disease and Parkinson's Disease and related neurological disorders*.

27. Zhang, Y., Rodgers, J.L., O'Keefe, P., Terrera, G.M., Voll, S., **Mann, F.D.**, Hofer, S.M., Clouston, S. (November 2023). The Flynn Effect in Short-Term Cognitive Declines of Americans Aged 65 Years and Older: Smarter and Maybe Slower. *GSA Annual Scientific Meeting*.

26. **Mann, F.D.** & Krueger, R.F. (May 2019) Genetic Liability in the Study of Midlife Development in the U.S. *MIDUS Annual Meeting*. Madison, WI.

25**.** **Mann, F.D.**, DeYoung, C.G., Tiberius, V., & Krueger, R.F. (May 2019) Stability and well-being: Associations between the metatraits of the Big Five and well-being. *Genetic and Human Agency Meeting*. Charlottesville, VA.

24. **Mann, F.D.**, DeYoung, C.G., Tiberius, V., & Krueger, R.F. (July 2018) Stability, Change, and Covariation of Big Five Personality and Psychological Well-Being Across Adulthood: A Longitudinal Behavior Genetic Analysis. *19th European Conference on Personality*. Zadar, Croatia

23. **Mann, F.D.**, DeYoung, C.G., & Krueger, R.F. (June 2018) Psychosocial Exposures and Well-Being: Concurrent and Longitudinal Overlap Before and After Accounting for Gene-Environment Correlation. *48th Annual Meeting of the Behavioral Genetics Association*. Boston, MA.

22. **Mann, F.D.**, DeYoung, C.G., Tiberius, V., & Krueger, R.F. (May 2018) Are links between personality and well-being just in our genes? *MIDUS Annual Meeting*. Madison, WI.

21. **Mann, F.D.**, DeYoung, C.G., Tiberius, V., & Krueger, R.F. (May 2018) Stability, Change and Covariation of Big Five Personality and Psychological Well-Being Across Adulthood: A Longitudinal Behavior Genetic Analysis. *Genetic and Human Agency Meeting*, Charlottesville, VA.

20. Grotzinger, A.G., Briley, D., Engelhardt, L. **Mann, F.**, Patterson, M., Tackett, J., Tucker-Drob, E., & Harden, K. (April 2018) Genetic and Environmental Associations Between Hair Hormones and Self-Reported Pubertal Development. *Society for Research on Adolescence Biennial Conference*, Minneapolis, MN.

19. Patterson, M., Madole, J., **Mann, F.**, Tucker-Drob, E., & Harden, K. (April 2018) Network Analysis of Sensation Seeking, Delinquency, and Positive Risk-Taking. *Society for Research on Adolescence Biennial Conference*, Minneapolis, MN.

18. Harden, K.P., Engelhardt, L., **Mann, F.D.**, Patterson, M., Grotzinger, A., Savicki, S., Thibodeaux, M., Tackett, J., & Tucker-Drob, E.M. (May 2017) Overlapping Genetic Influences on Executive Functions, General Intelligence, and a General Factor of Psychopathology. *46th Annual Meeting of the Behavioral Genetics Association*, Oslo, Norway.

17. Harden, K.P., **Mann, F.D.**, Kretsch, N. Herzhoff, K., Tackett, J.L, & Tucker-Drob, E.M. (May 2017) Genetic Influences on Risk Preference in Adolescence: Results from a Multivariate Twin Study. *46th Annual Meeting of the Behavioral Genetics Association*, Oslo, Norway.

16. **Mann, F.D.**, Grotzinger, A., Patterson, M.W., Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (April 2017) Callous-unemotional traits moderate genetic and environmental variance in aggression, rule-breaking and conduct disorder: evidence for gene × trait interactions. *Society for Research on Child Development Biennial Conference*, Austin, TX.

15. Grotzinger, A., **Mann, F.D.**, Patterson, M.W., Engelhardt, L., Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (April 2017) Hair testosterone and externalizing behaviors: evidence for main effects and gene × testosterone interaction. *Society for Research on Child Development Biennial Conference*, Austin, TX.

14. Patterson, M.W., **Mann, F.D.**, Grotzinger, A.D., Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (April 2017) Sex-specific pathways between sensation seeking, delinquency, and positive risk-taking in adolescence. *Society for Research on Child Development Biennial Conference*, Austin, TX.

13. Briley, D.A., Engelhardt, L.E., **Mann, F.D.**, Patterson, M.W., Grotzinger, A., Tackett, J.L., Harden, K.P., & Tucker-Drob, E.M. (April 2017) Developmental shifts in the genetic and environmental factor structure of the Big Five. *Society for Personality and Social Psychology Annual Conference: Lifespan Preconference*, San Antonio, TX.

12. Grotzinger, A., **Mann, F.D**., Patterson, M.W., Tackett J.L., Tucker-Drob, E.M., & Harden, P. (January 2017) Associations between Salivary and Hair Testosterone and Externalizing Behaviors in Adolescence. *Society for Personality and Social Psychology Annual Conference: Social Neuroendocrinology Preconference*, San Antonio, TX.

11. Patterson, M.W., **Mann, F.D.**, Grotzinger, A.D., Tucker-Drob, E.M., & Harden, K.P. (April 2016) Developmental changes in anxiety and depression: moderation of genetic and environmental influences by age and puberty. *Society for Research on Adolescence Biennial Conference*, Baltimore, MD.

10. Grotzinger, A.D., **Mann, F.D**., Patterson, M.W., Tucker-Drob, E.M., & Harden, K.P. (April 2016) Genetic and environmental influence on the covariation between estradiol and testosterone in adolescent twins. *Society for Research on Adolescence Biennial Conference*, Baltimore, MD.

9. **Mann, F.D.**, Tucker-Drob, E.M., & Harden, K.P. (October 2015) Parenting, personality risk, and adolescent delinquency. *9th Biennial Meeting of the Society for the Study of Human Development*, Austin, TX.

8. Briley, D.A., Engelhardt. L.E., **Mann, F.D**., Harden, K.P. & Tucker-Drob, E.M. (September 2015) Genetic and environmental structure of self-regulation: executive functioning and conscientiousness. *Annual Conference for the International Society for Intelligence Research*, Albuquerque, NM.

7. Tucker-Drob, E.M., Briley, D.A., Engelhardt, L.E., **Mann, F.M.**, Patterson, M.W., & Harden, K.P. (June 2015) Biometric analysis of chronic cortisol in a socioeconomically diverse twin sample. *45th Annual Meeting of the Behavioral Genetics Association*, San Diego, CA.

6. Patterson, M., **Mann, F.**, Tucker-Drob, E., & Harden, K. (June 2015) Multivariate analysis of genetic and environmental influences on parenting in adolescence. *45th Annual Meeting of the Behavioral Genetics Association*, San Diego, CA.

5. Tucker-Drob, E., Briley, D., Engelhardt, L., Patterson, M., **Mann, F.D.**, & Harden K. (June 2015) Biometric analysis of chronic cortisol in a socioeconomically diverse twin sample. *45th Annual Meeting of the Behavioral Genetics Association*, San Diego, CA.

4. **Mann, F.D.**, Patterson, M.W., Martin, N.G., Tucker-Drob, E.M., & Harden, K.P. (June 2015) Trait endophenotypes for antisocial behavior: evidence for novelty seeking and impulsive trait across two independent samples. *45th Annual Meeting of the Behavioral Genetics Association*, San Diego, CA.

3. **Mann, F.D.**, Tucker-Drob, E.M., & Harden, K.P. (March 2015) Genetic and environmental pathways to adolescent delinquency: sensation seeking, peer deviance and parental monitoring. *Society for Research on Child Development Biennial Conference*, Philadelphia, PA.

1. **Mann, F.D.**, Tucker-Drob, E., & Harden, K. (June 2014) The genetics of personality and callous-unemotional traits. *44th Annual Meeting of the Behavioral Genetics Association*, Charlottesville, VA.

1. Engelhardt, L.E., Briley, D.A., **Mann, F.D.**, & Tucker-Drob, E.M. (September 2014) Genetic and environmental structure of executive functions in childhood. *44th Annual Meeting of the Behavioral Genetics Association*, Charlottesville, VA.

Posters Presented at Academic Conferences (asterisks indicate student advisee)

13. **Mann, F.D.** (July 2024) Cognitive Impairment in Firefighters and Emergency Medical Services Workers after Severe World Trade Center (WTC) Exposure. Alzheimer's Association International Conference (AAIC), Philadelphia, PA.

12. **Mann, F.D.**, Clouston, S.A.P., Cuevas, A., Waszczuk, M., Luft, B. (April 2023) Traumatic Exposure, Post-Traumatic Stress, and Cognitive Impairment: A Longitudinal Mediation Analysis in World Trade Center (WTC) Responders. International Conference on Alzheimer's Disease and Parkinson's Diseases and related neurological disorders.

11. Wanström, L.A., O'Keefe, P., Clouston, S., **Mann, F.D.**, Terrera, G.M., Voll S., Hofer, S., Rodgers, J.L. (November 2022). It Runs in the Family: Testing for a Family Flynn Effect, With Links to Middle-Aged Maternal Health Outcomes. GSA Annual Scientific Meeting

10. Goktas, O.S., Ong, A., **Mann, F.D.** (May 2022) Is a Polygenic Score for Educational Attainment a Marker of Vantage Sensitivity in Getting Amplified Sleep Benefits from Positive Affect? American Psychological Society Annual Convention. Chicago, IL.

9. *Hobbs, K.A., **Mann, F.D.**, Latzman, R.D., Zimmerman, J., & Krueger, R.F. (March 2021) Personal Domains Across the Continua in Relation to Quality of Life. Society for Personality Assessment Virtual Convention.

8. **Mann. F.D.,** Wyckoff, J., Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (April 2018) Physical, Verbal and Relational Aggression in Adolescence: Testing an Evolutionary Hypothesis of Sex Differences. Society for Research on Adolescence Biennial Conference, Minneapolis, MN.

7. *Freis, S.M., **Mann, F.D.**, Tackett, J.L., Tucker-Drob, E.M., & Harden, K.P. (April 2017) Correlations between substance use and sexual risk-taking in adolescence: a behavior genetic analysis. Society for Research on Child Development Biennial Conference, Austin, TX.

6. *Curtis, H.E., **Mann, F.D.**, Patterson, M.W., Kretsch, N., Briley, D.A., Engelhardt, L.E., Cheung, A.K., Tucker-Drob, E.M., & Harden, K.P. (May 2015) Personality and sexual initiation in adolescence. Association for Psychological Science 27th Annual Convention, New York, NY.

5. *Curtis, H.E., Briley, D.A., Cheung, A.K., Engelhardt, L.E., Kretsch, N., **Mann, F.D.**, Patterson, M.W., Tackett, J.L., Harden, K.P., & Tucker-Drob, E.M. (May 2015) Child genetic effects on parent educational expectations increase with age: evidence for gene-environment correlation. Association for Psychological Science 27th Annual Convention, New York, NY.

4. Patterson, M.W., **Mann, F.D.**, Tucker-Drob, E.M., & Harden, K.P. (March 2015) Differential pathways between drinking motives, peer deviance and alcohol use outcomes. Society for Research on Child Development Biennial Conference, Philadelphia, PA.

3. Engelhardt, L.E., Briley, D.A., **Mann, F.D.**, Churchland J.A., Harden, K.P., & Tucker-Drob, E.M. (September 2014) The unity and diversity framework of executive functions in childhood. The International Congress for Integrative Developmental Cognitive Neuroscience, Hollywood, CA.

2. **Mann, F.D.**, Tucker-Drob, E.M., & Harden, K.P. (March 2014) Trait-environment interactions predict adolescent delinquency: sensation seeking, peer deviance and parental monitoring. Society for Research on Adolescence Biennial Conference, Austin, TX.

1. **Mann, F.D.**, Davies, P.T., & Sturge-Apple, M.L. (March 2013) Individual differences in preschool children's sAA reactivity: child and family precursors. Society for Research on Child Development Biennial Conference, Seattle, WA.

HONORS & AWARDS

Early Career Award 2021
International Society for the Study of Individual Differences

Graduate School Continuing Fellowship 2015
Department of Psychology, University of Texas – Austin, TX

Professional Development Travel Award 2015
Department of Psychology, University of Texas – Austin, TX

Professional Development Travel Award 2014
Department of Psychology, University of Texas – Austin, TX

Magna Cum Laude in Psychology 2010
Department of Psychology, SUNY College at Brockport – Brockport, NY

EDITORIAL WORK

Statistical Reviewer
Journal of American Medical Association (JAMA) Network Open 2024 – Present

Ad hoc Reviewer 2015 – Present

The American Journal of Epidemiology; Brain, Behavior, and Immunity; British Journal of Educational Psychology; British Journal of Psychology; Child Development; Clinical Psychological Science; Development and Psychopathology; Developmental Psychology; Emotion; Epidemiology and Psychiatric Sciences; Journal of Abnormal Psychology; Journal of Adolescent Health; Journal of Child Psychology and Psychiatry; Journal of Criminal Justice; Journal of Personality and Social Psychology; Nature Mental Health; Personality and Social Psychology Bulletin; Psychological Medicine; Schizophrenia Bulletin; Personality and Social Psychology; Journal of Personality Disorders; Nature Mental Health; Neuropsychiatric Disease and Treatment; Personality and Social Psychology Bulletin; PLOS One; Psychiatry Research; Psychiatry, Psychology, and Law; Psychological Medicine; Schizophrenia Bulletin; Substance Use and Misuse