

## Publications

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### JOURNAL ARTICLES

1. Breit, M., Scherrer, V., Tucker-Drob, E. M., & Preckel, F. (2024). The stability of cognitive abilities: A meta-analytic review of longitudinal studies. *Psychological Bulletin*. <https://doi.org/10.1037/bu10000425>
2. Willems, Y. E., deSteiguer, A., Tanksley, P. T., Vinnik, L., Fraemke, D., Okbay, A., Richter, D., Wagner, G. G., Hertwig, R., Koellinger, P., Tucker-Drob, E. M., Harden, K. P., & Raffington, L. (2024). Self-control is associated with health-relevant disparities in buccal DNA-methylation measures of biological aging in older adults. *Clinical Epigenetics*, 16(1). <https://doi.org/10.1186/s13148-024-01637-7>
3. Clapp Sullivan, M. L., Schwaba, T., Harden, K. P., Grotzinger, A. D., Nivard, M. G., & Tucker-Drob, E. M. (2024). Beyond the factor indeterminacy problem using genome-wide association data. *Nature Human Behaviour*. <https://doi.org/10.1038/s41562-023-01789-1>
4. Koellinger, P. D., Okbay, A., Kweon, H., Schweinert, A., Linnér, R. K., Goebel, J., Richtel, D., Reiber, L., Zweck, B. M., Belsky, D. W., Biroli, P., Mata, R., Tucker-Drob, E. M., Harden, K. P., Wagner, G., & Hertwig, R. (2023). Cohort profile: Genetic data in the german socio-economic panel innovation sample (SOEP-g). *PLOS ONE*, 18(11), e0294896. <https://doi.org/10.1371/journal.pone.0294896>
5. Tin, A., Fohner, A. E., Yang, Q., Brody, J. A., Davies, G., Yao, J., Liu, D., Caro, I., Lindbohm, J. V., Duggan, M. R., Meirelles, O., Harris, S. E., Gudmundsdottir, V., Taylor, A. M., Henry, A., Beiser, A. S., Shojiaie, A., Coors, A., Fitzpatrick, A. L., ... Fornage, M. (2023). Identification of circulating proteins associated with general cognitive function among middle-aged and older adults. *Communications Biology*, 6(1). <https://doi.org/10.1038/s42003-023-05454-1>
6. Raffington, L., Schneper, L., Mallard, T., Fisher, J., Vinnik, L., Hollis-Hansen, K., Notterman, D. A., Tucker-Drob, E. M., Mitchell, C., & Harden, K. P. (2023). Salivary epigenetic measures of body mass index and social determinants of health across childhood and adolescence. *JAMA Pediatrics*, 177(10), 1047. <https://doi.org/10.1001/jamapediatrics.2023.3017>
7. Kun, E., Javan, E. M., Smith, O., Gulamali, F., Fuente, J. de la, Flynn, B. I., Vajralla, K., Trutner, Z., Jayakumar, P., Tucker-Drob, E. M., Sohail, M., Singh, T., & Narasimhan, V. M. (2023). The genetic architecture and evolution of the human skeletal form. *Science*, 381(6655). <https://doi.org/10.1126/science.adf8009>
8. Madole, J. W., Buchanan, C. R., Rhemtulla, M., Ritchie, S. J., Bastin, M. E., Deary, I. J., Cox, S. R., & Tucker-Drob, E. M. (2023). Strong intercorrelations among global graph-theoretic indices of structural connectivity in the human brain. *NeuroImage*, 275, 120160. <https://doi.org/10.1016/j.neuroimage.2023.120160>
9. Raffington, L., Schwaba, T., Aikins, M., Richter, D., Wagner, G. G., Harden, K. P., Belsky, D. W., & Tucker-Drob, E. M. (2023). Associations of socioeconomic disparities with buccal DNA-methylation measures of biological aging. *Clinical Epigenetics*, 15(1). <https://doi.org/10.1186/s13148-023-01489-7>
10. Yeung, H. W., Stolicyn, A., Buchanan, C. R., Tucker-Drob, E. M., Bastin, M. E., Luz, S., McIntosh, A. M., Whalley, H. C., Cox, S. R., & Smith, K. (2022). Predicting sex, age, general cognition and mental health with machine learning on brain structural connectomes. *Human Brain Mapping*, 44(5), 1913–1933. <https://doi.org/10.1002/hbm.26182>
11. Fürtjes, A. E., Arathimos, R., Coleman, J. R. I., Cole, J. H., Cox, S. R., Deary, I. J., Fuente, J. de la, Madole, J. W., Tucker-Drob, E. M., & Ritchie, S. J. (2023). General dimensions of human brain morphometry inferred from genome-wide association data. *Human Brain Mapping*, 44(8), 3311–3323. <https://doi.org/10.1002/hbm.26283>
12. Hatoum, A. S., Colbert, S. M. C., Johnson, E. C., Huggett, S. B., Deak, J. D., Pathak, G. A., Jennings, M. V., Paul, S. E., Karcher, N. R., Hansen, I., Baranger, D. A. A., Edwards, A., Grotzinger, A. D., Adkins, D. E., Adkins, A. E., Alanne-Kinnunen, M., Alexander, J. C., Aliev, F., Bacanu, S.-A., ... Agrawal, A. (2023). Multivariate genome-wide association meta-analysis of over 1 million subjects identifies loci underlying multiple substance use disorders. *Nature Mental Health*, 1(3), 210–223. <https://doi.org/10.1038/s44220-023-00034-y>
13. Raffington, L., Tanksley, P. T., Vinnik, L., Sabhlok, A., Patterson, M. W., Mallard, T., Malanchini, M., Ayorech, Z., Tucker-Drob, E. M., & Paige Harden, K. (2023). Associations of DNA-methylation measures of biological aging with social disparities in child and adolescent mental health. *Clinical Psychological Science*. <https://doi.org/10.1177/21677026231186802>
14. Grotzinger, A. D., Fuente, J. de la, Privé, F., Nivard, M. G., & Tucker-Drob, E. M. (2023). Pervasive downward bias in estimates of liability-scale heritability in genome-wide association study meta-analysis: A simple solution. *Biological Psychiatry*, 93(1), 29–36. <https://doi.org/10.1016/j.biopsych.2022.05.029>

15. McCartney, D. L., Hillary, R. F., Conole, E. L. S., Banos, D. T., Gadd, D. A., Walker, R. M., Nangle, C., Flaig, R., Campbell, A., Murray, A. D., Maniega, S. M., Valdés-Hernández, M. del C., Harris, M. A., Bastin, M. E., Wardlaw, J. M., Harris, S. E., Porteous, D. J., Tucker-Drob, E. M., McIntosh, A. M., ... Marioni, R. E. (2022). Blood-based epigenome-wide analyses of cognitive abilities. *Genome Biology*, 23(1). <https://doi.org/10.1186/s13059-021-02596-5>
16. Raffington, L., Tanksley, P. T., Sabhlok, A., Vinnik, L., Mallard, T., King, L. S., Goosby, B., Harden, K. P., & Tucker-Drob, E. M. (2022). Socially stratified epigenetic profiles are associated with cognitive functioning in children and adolescents. *Psychological Science*, 34(2), 170–185. <https://doi.org/10.1177/09567976221122760>
17. Patterson, M. W., Pivnick, L., Mann, F. D., Grotzinger, A. D., Monahan, K. C., Steinberg, L. 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*, 33(2), 680–700. <https://doi.org/10.1111/jora.12807>
18. Shields, A. N., Malanchini, M., Vinnik, L., Tucker-Drob, E. M., Harden, K. P., & Tackett, J. L. (2022). Genetic variance in conscientiousness relates to youth psychopathology beyond executive functions. *Journal of Psychopathology and Clinical Science*, 131(8), 830–846. <https://doi.org/10.1037/abn0000781>
19. Grotzinger, A. D., Fuente, J. de la, Davies, G., Nivard, M. G., & Tucker-Drob, E. M. (2022). Transcriptome-wide and stratified genomic structural equation modeling identify neurobiological pathways shared across diverse cognitive traits. *Nature Communications*, 13(1). <https://doi.org/10.1038/s41467-022-33724-9>
20. Raffington, L., Malanchini, M., Grotzinger, A. D., Madole, J. W., Engelhardt, L. E., Sabhlok, A., Youn, C., Patterson, M. W., Harden, K. P., & Tucker-Drob, E. M. (2022). An in-laboratory stressor reveals unique genetic variation in child cortisol output. *Developmental Psychology*, 58(10), 1832–1848. <https://doi.org/10.1037/dev0001393>
21. Domingue, B. W., Kanopka, K., Trejo, S., Rhemtulla, M., & Tucker-Drob, E. M. (2022). Ubiquitous bias and false discovery due to model misspecification in analysis of statistical interactions: The role of the outcome's distribution and metric properties. *Psychological Methods*. <https://doi.org/10.1037/met0000532>
22. Fuente, J. de la, Grotzinger, A. D., Marioni, R. E., Nivard, M. G., & Tucker-Drob, E. M. (2022). Integrated analysis of direct and proxy genome wide association studies highlights polygenicity of alzheimer's disease outside of the APOE region. *PLOS Genetics*, 18(6), e1010208. <https://doi.org/10.1371/journal.pgen.1010208>
23. Mallard, T. T., Karlsson Linnér, R., Grotzinger, A. D., Sanchez-Roige, S., Seidlitz, J., Okbay, A., Vlaming, R. de, Meddens, S. F. W., Palmer, A. A., Davis, L. K., Tucker-Drob, E. M., Kendler, K. S., Keller, M. C., Koellinger, P. D., & Harden, K. P. (2022). Multivariate GWAS of psychiatric disorders and their cardinal symptoms reveal two dimensions of cross-cutting genetic liabilities. *Cell Genomics*, 2(6), 100140. <https://doi.org/10.1016/j.xgen.2022.100140>
24. Grotzinger, A. D., Mallard, T. T., Akingbuwa, W. A., Ip, H. F., Adams, M. J., Lewis, C. M., McIntosh, A. M., Grove, J., Dalsgaard, S., Lesch, K.-P., Strom, N., Meier, S. M., Mattheisen, M., Børglum, A. D., Mors, O., Breen, G., Mattheisen, M., Mors, O., Meier, S. M., ... Nivard, M. G. (2022). Genetic architecture of 11 major psychiatric disorders at biobehavioral, functional genomic and molecular genetic levels of analysis. *Nature Genetics*, 54(5), 548–559. <https://doi.org/10.1038/s41588-022-01057-4>
25. Youn, C., Grotzinger, A. D., Lill, C. M., Bertram, L., Schmiedek, F., Lövdén, M., Lindenberger, U., Nivard, M., Harden, K. P., & Tucker-Drob, E. M. (2022). Genetic associations with learning over 100 days of practice. *Npj Science of Learning*, 7(1). <https://doi.org/10.1038/s41539-022-00121-2>
26. Howe, L. J., Nivard, M. G., Morris, T. T., Hansen, A. F., Rasheed, H., Cho, Y., Chittoor, G., Ahlskog, R., Lind, P. A., Palviainen, T., Zee, M. D. van der, Cheesman, R., Mangino, M., Wang, Y., Li, S., Klaric, L., Ratliff, S. M., Bielak, L. F., Nygaard, M., ... Davies, N. M. (2022). Within-sibship genome-wide association analyses decrease bias in estimates of direct genetic effects. *Nature Genetics*, 54(5), 581–592. <https://doi.org/10.1038/s41588-022-01062-7>
27. Sabhlok, A., Malanchini, M., Engelhardt, L. E., Madole, J., Tucker-Drob, E. M., & Harden, K. P. (2021). The relationship between executive function, processing speed, and attention-deficit hyperactivity disorder in middle childhood. *Developmental Science*, 25(2). <https://doi.org/10.1111/desc.13168>
28. Tucker-Drob, E. M., Fuente, J. de la, Köhncke, Y., Brandmaier, A. M., Nyberg, L., & Lindenberger, U. (2022). A strong dependency between changes in fluid and crystallized abilities in human cognitive aging. *Science Advances*, 8(5). <https://doi.org/10.1126/sciadv.abj2422>
29. Durkee, P. K., Lukaszewski, A. W., Rueden, C. R. von, Gurven, M. D., Buss, D. M., & Tucker-Drob, E. M. (2022). Niche diversity predicts personality structure across 115 nations. *Psychological Science*, 33(2), 285–298. <https://doi.org/10.1177/09567976211031571>

30. Dutra, N. B., Chen, L., Anum, A., Burger, O., Davis, H. E., Dzokoto, V. A., Fong, F. T. K., Ghelardi, S., Mendez, K., Messer, E. J. E., Newhouse, M., Nielsen, M. G., Ramos, K., Rawlings, B., Santos, R. A. C. dos, Silveira, L. G. S., Tucker-Drob, E. M., & Legare, C. H. (2022). Examining relations between performance on non-verbal executive function and verbal self-regulation tasks in demographically-diverse populations. *Developmental Science*, 25(5). <https://doi.org/10.1111/desc.13228>
31. Gadd, D. A., Hillary, R. F., McCartney, D. L., Zaghlool, S. B., Stevenson, A. J., Cheng, Y., Fawns-Ritchie, C., Nangle, C., Campbell, A., Flaig, R., Harris, S. E., Walker, R. M., Shi, L., Tucker-Drob, E. M., Gieger, C., Peters, A., Waldenberger, M., Graumann, J., McRae, A. F., ... Marioni, R. E. (2022). Epigenetic scores for the circulating proteome as tools for disease prediction. *eLife*, 11. <https://doi.org/10.7554/eLife.71802>
32. Domingue, B. W., Kanopka, K., Mallard, T. T., Trejo, S., & Tucker-Drob, E. M. (2021). Modeling interaction and dispersion effects in the analysis of gene-by-environment interaction. *Behavior Genetics*, 52(1), 56–64. <https://doi.org/10.1007/s10519-021-10090-8>
33. Junkins, E. J., Potter, J. E., Rentfrow, P. J., Gosling, S. D., Potter, J., Harden, K. P., Tucker-Drob, E. M., Derringer, J., & Briley, D. A. (2021). Geographic variation in personality is associated with fertility across the united states. *Personality Science*, 2. <https://doi.org/10.5964/ps.7275>
34. Becker, J., Burik, C. A. P., Goldman, G., Wang, N., Jayashankar, H., Bennett, M., Belsky, D. W., Karlsson Linnér, R., Ahlskog, R., Kleinman, A., Hinds, D. A., Agee, M., Alipanahi, B., Auton, A., Bell, R. K., Bryc, K., Elson, S. L., Fontanillas, P., Furlotte, N. A., ... Okbay, A. (2021). Resource profile and user guide of the polygenic index repository. *Nature Human Behaviour*, 5(12), 1744–1758. <https://doi.org/10.1038/s41562-021-01119-3>
35. Raffington, L., Belsky, D. W., Kothari, M., Malanchini, M., Tucker-Drob, E. M., & Harden, K. P. (2021). Socioeconomic disadvantage and the pace of biological aging in children. *Pediatrics*, 147(6). <https://doi.org/10.1542/peds.2020-024406>
36. Cox, S. R., Harris, M. A., Ritchie, S. J., Buchanan, C. R., Valdés Hernández, M. C., Corley, J., Taylor, A. M., Madole, J. W., Harris, S. E., Whalley, H. C., McIntosh, A. M., Russ, T. C., Bastin, M. E., Wardlaw, J. M., Deary, I. J., & Tucker-Drob, E. M. (2021). Three major dimensions of human brain cortical ageing in relation to cognitive decline across the eighth decade of life. *Molecular Psychiatry*, 26(6), 2651–2662. <https://doi.org/10.1038/s41380-020-00975-1>
37. Madole, J. W., Ritchie, S. J., Cox, S. R., Buchanan, C. R., Hernández, M. V., Maniega, S. M., Wardlaw, J. M., Harris, M. A., Bastin, M. E., Deary, I. J., & Tucker-Drob, E. M. (2021). Aging-sensitive networks within the human structural connectome are implicated in late-life cognitive declines. *Biological Psychiatry*, 89(8), 795–806. <https://doi.org/10.1016/j.biopsych.2020.06.010>
38. Fuente, J. de la, Davies, G., Grotzinger, A. D., Tucker-Drob, E. M., & Deary, I. J. (2020). A general dimension of genetic sharing across diverse cognitive traits inferred from molecular data. *Nature Human Behaviour*, 5(1), 49–58. <https://doi.org/10.1038/s41562-020-00936-2>
39. Van den Akker, A. L., Briley, D. A., Grotzinger, A. D., Tackett, J. L., Tucker-Drob, E. M., & Harden, K. P. (2021). Adolescent big five personality and pubertal development: Pubertal hormone concentrations and self-reported pubertal status. *Developmental Psychology*, 57(1), 60–72. <https://doi.org/10.1037/dev0001135>
40. Buchanan, C. R., Muñoz Maniega, S., Valdés Hernández, M. C., Ballerini, L., Barclay, G., Taylor, A. M., Russ, T. C., Tucker-Drob, E. M., Wardlaw, J. M., Deary, I. J., Bastin, M. E., & Cox, S. R. (2021). Comparison of structural MRI brain measures between 1.5 and 3 t: Data from the lothian birth cohort 1936. *Human Brain Mapping*, 42(12), 3905–3921. <https://doi.org/10.1002/hbm.25473>
41. Roe, M. A., Engelhardt, L. E., Nugiel, T., Harden, K. P., Tucker-Drob, E. M., & Church, J. A. (2021). Error-signaling in the developing brain. *NeuroImage*, 227, 117621. <https://doi.org/10.1016/j.neuroimage.2020.117621>
42. Vogt, R. L., Zheng, A., Briley, D. A., Malanchini, M., Harden, K. P., & Tucker-Drob, E. M. (2021). Genetic and environmental factors of non-ability-based confidence. *Social Psychological and Personality Science*, 13(3), 734–746. <https://doi.org/10.1177/19485506211036610>
43. Karlsson Linnér, R., Mallard, T. T., Barr, P. B., Sanchez-Roige, S., Madole, J. W., Driver, M. N., Poore, H. E., Vlaming, R. de, Grotzinger, A. D., Tielbeek, J. J., Johnson, E. C., Liu, M., Rosenthal, S. B., Ideker, T., Zhou, H., Kember, R. L., Pasman, J. A., Verweij, K. J. H., Liu, D. J., ... Dick, D. M. (2021). Multivariate analysis of 1.5 million people identifies genetic associations with traits related to self-regulation and addiction. *Nature Neuroscience*, 24(10), 1367–1376. <https://doi.org/10.1038/s41593-021-00908-3>
44. Malanchini, M., Engelhardt, L. E., Raffington, L. A., Sabhlok, A., Grotzinger, A. D., Briley, D. A., Madole, J. W., Freis, S. M., Patterson, M. W., Harden, K. P., & Tucker-Drob, E. M. (2020). Weak and uneven associations of home, neighborhood, and school environments with stress hormone output across multiple timescales. *Molecular Psychiatry*, 26(9), 4823–4838. <https://doi.org/10.1038/s41380-020-0747-z>
45. Bosma, M. J., Cox, S. R., Ziermans, T., Buchanan, C. R., Shen, X., Tucker-Drob, E. M., Adams, M. J., Whalley, H. C., & Lawrie, S. M. (2021). White matter, cognition and psychotic-like experiences in UK biobank. *Psychological Medicine*, 53(6), 2370–2379. <https://doi.org/10.1017/s0033291721004244>

46. Demange, P. A., Malanchini, M., Mallard, T. T., Biroli, P., Cox, S. R., Grotzinger, A. D., Tucker-Drob, E. M., Abdellaoui, A., Arseneault, L., Bergen, E. van, Boomsma, D. I., Caspi, A., Corcoran, D. L., Domingue, B. W., Harris, K. M., Ip, H. F., Mitchell, C., Moffitt, T. E., Poulton, R., ... Nivard, M. G. (2021). Investigating the genetic architecture of noncognitive skills using GWAS-by-subtraction. *Nature Genetics*, 53(1), 35–44. <https://doi.org/10.1038/s41588-020-00754-2>

## PREPRINTS

1. deSteiguer, A. J., Raffington, L., Sabhlok, A., Tanksley, P., Tucker-Drob, E. M., & Harden, K. P. (2023). *Stability of DNA-methylation profiles of biological aging in children and adolescents*. <https://doi.org/10.1101/2023.10.30.564766>
2. Mallard, T. T., Tubbs, J. D., Jennings, M., Zhang, Y., Gustavson, D. E., Grotzinger, A. D., Westwater, M. L., Williams, C. M., Fortgang, R. G., Elson, S. L., Fontanillas, P., Davis, L. K., Raznahan, A., Tucker-Drob, E. M., Choi, K. W., Ge, T., Smoller, J. W., Palmer, A. A., & Sanchez-Roige, S. (2023). *The pleiotropic architecture of human impulsivity across biological scales*. <https://doi.org/10.1101/2023.11.28.23299133>
3. Zhou, J., Indik, C. E., Kuipers, T. B., Li, C., Nivard, M. G., Ryan, C. P., Tucker-Drob, E. M., Taeubert, M. J., Wang, S., Wang, T., Conley, D., Heijmans, B. T., Lumey, L., & Belsky, D. W. (2023). *Genetic analysis of selection bias in a natural experiment: Investigating in-utero famine effects on elevated body mass index in the dutch hunger winter families study*. <https://doi.org/10.1101/2023.10.23.23297381>
4. Willems, Y. E., deSteiguer, A., Tanksley, P. T., Vinnik, L., Främke, D., Okbay, A., Richter, D., Wagner, G. G., Hertwig, R., Koellinger, P., Tucker-Drob, E. M., Harden, K. P., & Raffington, L. (2023). *Self-control is associated with health-relevant disparities in buccal DNA-methylation measures of biological aging in older adults*. <https://doi.org/10.1101/2023.08.30.23294816>
5. Adams, M. J., Thorp, J. G., Jermy, B. S., Kwong, A. S. F., Köiv, K., Grotzinger, A. D., Nivard, M. G., Marshall, S., Milaneschi, Y., Baune, B. T., Müller-Myhsok, B., Penninx, B. W., Boomsma, D. I., Levinson, D. F., Breen, G., Pistis, G., Grabe, H. J., Tiemeier, H., Berger, K., ... Derks, E. M. (2023). *Genetic structure of major depression symptoms across clinical and community cohorts*. <https://doi.org/10.1101/2023.07.05.23292214>
6. Schwaba, T., Mallard, T. T., Maihofer, A. X., Rhemtulla, M., Lee, P. H., Smoller, J. W., Davis, L. K., Nivard, M. G., Grotzinger, A. D., & Tucker-Drob, E. M. (2023). *Comparison of the multivariate genetic architecture of eight major psychiatric disorders across sex*. <https://doi.org/10.1101/2023.05.25.23290545>
7. Malanchini, M., Allegrini, A., Nivard, M. G., Biroli, P., Rimfeld, K., Cheesman, R., Stumm, S. von, Demange, P., Bergen, E. van, Grotzinger, A., Raffington, L., Fuente, J. de la, Pingault, J.-B., Harden, K., Tucker-Drob, E., & Plomin, R. (2023). *Genetic contributions of noncognitive skills to academic development*. <https://doi.org/10.21203/rs.3.rs-2775994/v1>
8. Malanchini, M., Allegrini, A. G., Nivard, M. G., Biroli, P., Rimfeld, K., Cheesman, R., Stumm, S. von, Demange, P. A., Bergen, E. van, Grotzinger, A. D., Raffington, L., Fuente, J. D. la, Pingault, J.-B., Harden, K. P., Tucker-Drob, E. M., & Plomin, R. (2023). *Genetic contributions of noncognitive skills to academic development*. <https://doi.org/10.1101/2023.04.03.535380>
9. Moodie, J. E., Harris, S. E., Harris, M. A., Buchanan, C. R., Davies, G., Taylor, A., Redmond, P., Liewald, D., C Valdés Hernández, M. del, Shenkin, S., Russ, T. C., Maniega, S. M., Luciano, M., Corley, J., Stolicyn, A., Shen, X., Steele, D., Waiter, G., Sandu-Giuraniuc, A., ... Cox, S. R. (2023). *General and specific patterns of cortical gene expression as spatial correlates of complex cognitive functioning*. <https://doi.org/10.1101/2023.03.16.532915>
10. Raffington, L., Schneper, L., Mallard, T., Fisher, J., Vinnik, L., Hollis-Hansen, K., Notterman, D. A., Tucker-Drob, E. M., Mitchell, C., & Harden, K. P. (2023). *Measuring the long arm of childhood in real-time: Epigenetic predictors of BMI and social determinants of health across childhood and adolescence*. <https://doi.org/10.1101/2023.01.20.524709>
11. Kun, E., Javan, E. M., Smith, O., Gulamali, F., Fuente, J. de la, Flynn, B. I., Vajralla, K., Trutner, Z., Jayakumar, P., Tucker-Drob, E. M., Sohail, M., Singh, T., & Narasimhan, V. M. (2023). *The genetic architecture of the human skeletal form*. <https://doi.org/10.1101/2023.01.03.521284>
12. Raffington, L., Schwaba, T., Aikins, M., Richter, D., Wagner, G. G., Harden, K. P., Belsky, D. W., & Tucker-Drob, E. M. (2022). *Associations of socioeconomic disparities with buccal DNA-methylation measures of biological aging*. <https://doi.org/10.1101/2022.12.07.519438>
13. Yeung, H. W., Stolicyn, A., Shen, X., Adams, M. J., Romaniuk, L., Thng, G., Buchanan, C. R., Tucker-Drob, E. M., Bastin, M. E., McIntosh, A. M., Cox, S. R., Smith, K. M., & Whalley, H. C. (2022). *Classification accuracy of structural and functional connectomes across different depressive phenotypes*. <https://doi.org/10.1101/2022.11.22.22282621>
14. Yeung, H. W., Stolicyn, A., Buchanan, C. R., Tucker-Drob, E. M., Bastin, M. E., Luz, S., McIntosh, A. M., Whalley, H. C., Cox, S. R., & Smith, K. (2022). *Predicting sex, age, general cognition and mental health with machine learning on brain structural connectomes*. <https://doi.org/10.1101/2022.03.03.22271801>

15. Hatoum, A. S., Colbert, S. M. C., Johnson, E. C., Huggett, S. B., Deak, J. D., Pathak, G. A., Jennings, M. V., Paul, S. E., Karcher, N. R., Hansen, I., Baranger, D. A. A., Edwards, A., Grotzinger, A. D., Tucker-Drob, E. M., Kranzler, H., Davis, L. K., Sanchez-Roige, S., Polimanti, R., Gelernter, J., ... Agrawal, A. (2022). *Multivariate genome-wide association meta-analysis of over 1 million subjects identifies loci underlying multiple substance use disorders*. <https://doi.org/10.1101/2022.01.06.22268753>
16. Raffington, L., Tanksley, P., Vinnik, L., Sabhlok, A., Patterson, M. W., Mallard, T., Malanchini, M., Ayorech, Z., Tucker-Drob, E. M., & Harden, K. P. (2021). *Socially stratified DNA-methylation profiles are associated with disparities in child and adolescent mental health*. <https://doi.org/10.1101/2021.09.17.21263582>
17. Raffington, L., Tanksley, P. T., Sabhlok, A., Vinnik, L., Mallard, T., King, L. S., Goosby, B., Harden, K. P., & Tucker-Drob, E. M. (2021). *Socially stratified epigenetic profiles are associated with cognitive functioning in children and adolescents*. <https://doi.org/10.1101/2021.08.19.456979>
18. Fuente, J. de la, Grotzinger, A. D., Marioni, R. E., Nivard, M. G., & Tucker-Drob, E. M. (2021). *Multivariate modeling of direct and proxy GWAS indicates substantial common variant heritability of alzheimer's disease*. <https://doi.org/10.1101/2021.05.06.21256747>
19. Grotzinger, A. D., Fuente, J. de la, Davies, G., Nivard, M. G., & Tucker-Drob, E. M. (2021). *Transcriptome-wide and stratified genomic structural equation modeling identify neurobiological pathways underlying general and specific cognitive functions*. <https://doi.org/10.1101/2021.04.30.21256409>
20. Becker, J., Burik, C. A. P., Goldman, G., Wang, N., Jayashankar, H., Bennett, M., Belsky, D. W., Linnér, R. K., Ahlskog, R., Kleinman, A., Hinds, D. A., Caspi, A., Corcoran, D. L., Moffitt, T. E., Poulton, R., Sugden, K., Williams, B. S., Harris, K. M., Steptoe, A., ... Okbay, A. (2021). *Resource profile and user guide of the polygenic index repository*. <https://doi.org/10.1101/2021.05.08.443158>
21. Buchanan, C. R., Muñoz Maniega, S., Valdés Hernández, M. C., Ballerini, L., Barclay, G., Taylor, A. M., Russ, T. C., Tucker-Drob, E. M., Wardlaw, J. M., Deary, I. J., Bastin, M. E., & Cox, S. R. (2021). *Comparison of structural MRI brain measures between 1.5T and 3T: Data from the lothian birth cohort 1936*. <https://doi.org/10.1101/2021.04.23.21256000>
22. Domingue, B., Kanopka, K., Trejo, S., Rhemtulla, M., & Tucker-Drob, E. M. (2021). *Ubiquitous bias & false discovery due to model misspecification in analysis of statistical interactions: The role of the outcome's distribution and metric properties*. <https://doi.org/10.31234/osf.io/932fm>
23. Howe, L. J., Nivard, M. G., Morris, T. T., Hansen, A. F., Rasheed, H., Cho, Y., Chittoor, G., Lind, P. A., Palviainen, T., Zee, M. D. van der, Cheesman, R., Mangino, M., Wang, Y., Li, S., Klaric, L., Ratliff, S. M., Bielak, L. F., Nygaard, M., Reynolds, C. A., ... Davies, N. M. (2021). *Within-sibship GWAS improve estimates of direct genetic effects*. <https://doi.org/10.1101/2021.03.05.433935>
24. Grotzinger, A. D., Fuente, J. de la, Nivard, M. G., & Tucker-Drob, E. M. (2021). *Pervasive downward bias in estimates of liability scale heritability in GWAS meta-analysis: A simple solution*. <https://doi.org/10.1101/2021.09.22.21263909>

## BOOKS

## BOOK CHAPTERS

# Professional Presentations

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## Joint Growth-Survival Modelling Reveals Distinct Developmental Pathways to Dementia

UNIVERSITY OF SOUTHERN CALIFORNIA SCHAEFFER CENTER

2024

## Theoretical and Methodological Considerations in the Study of Cognitive Aging and Dementia

CENTER FOR VITAL LONGEVITY, UT DALLAS

2023

## Theoretical and Methodological Considerations in the Study of Cognitive Aging and Dementia

THE DEEP DEMENTIA PHENOTYPING (DEMON) NETWORK

2023

## Theoretical and Methodological Considerations in the Epidemiology of Cognitive Aging and Dementia

NATIONAL INSTITUTE ON AGING INTRAMURAL RESEARCH PROGRAM

2022

## Using Genome-Wide Data to Investigate the Joint Genetic Architecture of Psychiatric Disorders

GRAND ROUNDS, DEPARTMENT OF PSYCHIATRY, UNIVERSITY OF MICHIGAN

2022

<b>Theoretical and Methodological Considerations in the Epidemiology of Cognitive Aging and Dementia</b>	
CENTER ON AGING AND POPULATION SCIENCES AND POPULATION RESEARCH CENTER, UNIVERSITY OF TEXAS AT AUSTIN	2022
<b>Theoretical and Methodological Considerations in the Epidemiology of Cognitive Aging and Dementia</b>	
LIFE COURSE EPIDEMIOLOGY COURSE, DEPARTMENT OF EPIDEMIOLOGY, COLUMBIA UNIVERSITY	2021
<b>Using Genome-Wide Data to Investigate the Joint Genetic Architecture of Complex Traits</b>	
RUSSELL SAGE FOUNDATION SUMMER INSTITUTE IN SOCIAL-SCIENCE GENOMICS	2021
<b>Theoretical and Methodological Considerations in the Epidemiology of Cognitive Aging and Dementia</b>	
DEPARTMENT OF EPIDEMIOLOGY, COLUMBIA UNIVERSITY	2021
<b>Using Genomic SEM to Apply Social Science Models to Genetic Data</b>	
CENTER FOR DEMOGRAPHY OF HEALTH AND AGING, UNIVERSITY OF WISCONSIN-MADISON	2021

Conference Abstracts

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Honors

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<b>Gershon Paper of the Year Award for: Hatoum et al. (2023). Multivariate genome-wide association meta-analysis of over 1 million subjects identifies loci underlying multiple substance use disorders. Nature Mental Health.</b>	International, US
INTERNATIONAL SOCIETY OF PSYCHIATRIC GENETICS	2023
<b>Article of the Year Award for: Lövdén, M., Fratiglioni, L., Glymour, M. M., Lindenberg, U., &amp; Tucker-Drob, E. M. (2020). Education and cognitive functioning across the lifespan. Psychological Science in the Public Interest, 21, 6-41.</b>	Nordic Mensa Fund, SE
MENSA INTERNATIONAL LTD	2021

Funding

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<b>Pending Grant (1st percentile): Epigenetic Pathways of Socioeconomic Disparities in Physical and Cognitive Health Across the Lifespan (Co-I)</b>	NICHHD, R01HD114724
FUNDING: \$3,345,489	2024 - 2029
<b>Large-Scale Genomic Analysis of Aging-Related Cognitive Change Prior to Dementia Onset (PI)</b>	National Institute on Aging, R01AG073593 (2 years following 3 years of RF1 AG073593)
FUNDING:	2024 - 2026
<b>Dissecting the Multivariate Genetic Architecture of Psychiatric Diseases</b>	NIMH, R01MH120219
FUNDING: \$2,647,625	2020 - 2025
<b>Dissecting the Multivariate Genetic Architecture of Psychiatric Diseases (PI)</b>	NIMH, R01MH120219
FUNDING: \$3,279,307	2020 - 2025
<b>Large-Scale Genomic Analysis of Aging-Related Cognitive Change Prior to Dementia Onset</b>	National Institute on Aging, RF1AG073593
FUNDING: \$2,060,713	2021 - 2024
<b>Environmental, Genetic, and Epigenetic Mechanisms for Hormonal Change (Co-I)</b>	National Institute of Child Health and Human Development, R01HD092548
FUNDING: \$3,328,440	2019 - 2024

## Evaluating Longitudinal Changes in the Human Structural Connectome in Relation to Cognitive Aging

FUNDING: \$2,727,824

National Institute on Aging,  
R01AG054628  
2017 - 2024

## Evaluating Longitudinal Changes in the Human Structural Connectome in Relation to Cognitive Aging (Administrative Supplement) (PI)

FUNDING: \$343,141

National Institute of Aging,  
R01AG054628 02S1  
2018 - 2023

## Evaluating Longitudinal Changes in the Human Structural Connectome in Relation to Cognitive Aging (PI)

FUNDING: \$2,384,680

National Institute of Aging,  
R01AG054628  
2017 - 2023

## Jacobs Foundation Advanced Research Fellowship (PI)

FUNDING: \$440,000

Jacobs Foundation,  
2018 - 2021

## Delineating genetic and environmentally-mediated influences on socioeconomic inequality in children's cortisol secretion and executive functions

FUNDING:

Deutsche Forschungsgemeinschaft,  
407466711  
2018 - 2021

## Cortisol, Socioeconomic Status, and Genetic Influences on Cognitive Development

FUNDING: \$2,970,899

Eunice Kennedy Shriver National  
Institute of Child Health and Human  
Development, R01HD083613  
2016 - 2021

## Service

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### Psychological Bulletin

CONSULTING EDITOR

Washington DC, US  
2020 - present

### Center on Aging and Population Sciences (CAPS)

FACULTY COUNCIL

Austin, US  
2020 - present

### Major Research Institutions

EXTERNAL REVIEWER: TENURE AND PROMOTION

N/A, US  
2019 - present

### The University of Texas at Austin

I ORGANIZE FREE ONE-TIME METHODOLOGICAL WORKSHOPS ON SPECIAL TOPICS THAT ARE NOT WELL-COVERED BY EXISTING COURSE OFFERINGS AT UT

Austin, US  
2018 - present

### The University of Texas at Austin

STATISTICAL ADVICE FOR STUDENTS WHO HAVE PREVIOUSLY COMPLETED MY COURSE IN STRUCTURAL EQUATION MODELING

Austin, US  
2009 - present

### Mentorship for Undergraduate Research Interns

STUDENTS REGULARLY WORK WITH DATA FROM THE TEXAS TWIN PROJECT FOR INDEPENDENT RESEARCH PROJECTS, E.G. AS PART OF THE DEPARTMENTAL HONORS PROGRAM, THE BRIDGING DISCIPLINES PROGRAM, THE POLYMATHIC SCHOLARS PROGRAM, OR THE DEPARTMENT'S SUMMER UNDERGRADUATE RESEARCH EXPERIENCE (SURE) PROGRAM FOR TRADITIONALLY UNDERREPRESENTED GROUPS.

Austin, US  
2009 - present

### Ad Hoc Reviewer: Selected Journals

ADVANCES IN METHODS IN PSYCHOLOGICAL SCIENCE, AMERICAN PSYCHOLOGIST, AMERICAN SOCIOLOGICAL REVIEW, BEHAVIOR GENETICS, BIOLOGICAL PSYCHIATRY, CEREBRAL CORTEX, CHILD DEVELOPMENT, CHILD DEVELOPMENT PERSPECTIVES, CURRENT DIRECTIONS IN PSYCHOLOGICAL SCIENCE, DEMOGRAPHY, DEVELOPMENTAL PSYCHOLOGY, DEVELOPMENTAL SCIENCE, JOURNAL OF CHILD PSYCHOLOGY AND PSYCHIATRY, JOURNAL OF EXPERIMENTAL PSYCHOLOGY: GENERAL, JOURNAL OF PERSONALITY AND SOCIAL PSYCHOLOGY, MOLECULAR PSYCHIATRY, MULTIVARIATE BEHAVIORAL RESEARCH, NATURE, NATURE HUMAN BEHAVIOUR, NATURE GENETICS, NATURE NEUROSCIENCE, PERSPECTIVES ON PSYCHOLOGICAL SCIENCE, PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, PSYCHOLOGICAL BULLETIN, PSYCHOLOGICAL MEDICINE, PSYCHOLOGICAL REVIEW, PSYCHOLOGICAL SCIENCE, PSYCHOLOGY AND AGING, SCIENTIFIC REPORTS, SOCIAL PSYCHOLOGICAL AND PERSONALITY SCIENCE, TRANSLATIONAL PSYCHIATRY

N/A, US  
2009 - present

### National Institutes of Health

REGULAR MEMBER (5 YEAR TERM), NEUROLOGICAL, MENTAL AND BEHAVIORAL HEALTH STUDY SECTION (NMBH)

Bethesda, US  
2023 - 2027

## University of Texas at Austin

SEARCH COMMITTEE FOR DIRECTOR OF THE SOCIAL AND BEHAVIORAL STATISTICS AND DATA SCIENCE (SBSDS) HUB

Austin, US

2023 - 2024

## National Institutes of Health

AD HOC STUDY SECTION MEMBER/REVIEWER: NMBH (2022), ZRG1 PSE L 90 (2021), ZRG1 PSE-Z(02) / N(07) (2020), BGES (2019), CHHD W (2018)

Bethesda, US

2018 - 2022

## Diversity in Cognitive Aging Search Committee

Austin, US

2020 - 2021

# Mentoring and Teaching

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## MENTORING

### Camille Williams, Ph.D.

CO-PRIMARY RESEARCH MENTOR FOR UT POSTDOCTORAL TRAINEE WITH K. P. HARDEN

2022 - present

### Margaret Clapp

PRIMARY RESEARCH MENTOR FOR UT GRADUATE STUDENT

2020 - present

### Javier de la Fuente, Ph.D.

PRIMARY RESEARCH MENTOR FOR UT POSTDOCTORAL FELLOW/RESEARCH SCIENTIST

2019 - present

### Aditi Sabhlok

SECONDARY RESEARCH MENTOR FOR UT GRADUATE STUDENT WITH K. P. HARDEN

2017 - present

### Ted Schwaba, Ph.D., Currently Assistant Professor at Michigan State University starting Fall 2023

PRIMARY RESEARCH MENTOR FOR UT POSTDOCTORAL FELLOW/RESEARCH SCIENTIST

2021 - 2023

### Aditi Sabhlok

DISSERTATION COMMITTEE MEMBER

2021 - 2023

### James Madole

CO-PRIMARY RESEARCH MENTOR FOR UT GRADUATE STUDENT WITH K. P. HARDEN

2017 - 2023

### James Madole

DISSERTATION CO-CHAIR

2021 - 2022

### Kelseanna Hollis-Hansen, Ph.D, currently Assistant Professor, UT Southwestern School of Public Health

PRIMARY RESEARCH MENTOR FOR UT POSTDOCTORAL FELLOW

2020 - 2022

### Lucy King, Ph.D., currently Computational Social Scientist at IDEO

PRIMARY RESEARCH MENTOR FOR UT POSTDOCTORAL FELLOW

2020 - 2022

### Laurel Raffington, Ph.D., currently Group Leader at Max Planck Institute for Human Development

PRIMARY RESEARCH MENTOR FOR UT POSTDOCTORAL FELLOW WITH K. P. HARDEN

2019 - 2022

### Cherry Youn

PRIMARY RESEARCH MENTOR FOR UT GRADUATE STUDENT

2018 - 2022

### Travis Mallard, currently postdoctoral fellow at MGH/Harvard

DISSERTATION COMMITTEE MEMBER

2019 - 2021

### Andrew D. Grotzinger, currently Assistant Professor at University of Colorado Boulder

PRIMARY RESEARCH MENTOR FOR UT GRADUATE STUDENT

2015 - 2021

## TEACHING

### Psychology

INSTRUCTOR FOR STRUCTURAL EQUATION MODELLING (PSY 384T) [ONE SEMESTER PER YEAR, EXCLUDING SABBATICAL]

2009 - present



**Psychology**

INSTRUCTOR FOR INDIVIDUAL DIFFERENCES (PSY 345) [ONE SEMESTER PER YEAR, EXCLUDING SABBATICAL]

2009 - *present*