Elliot M. **Tucker-Drob**

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Publications

Journal Articles

1. 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*. https://doi.org/10.1002/hbm.26182
2. 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., C. Valdés-Hernández, M. del, 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
3. 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
4. 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
5. Sabhlok, A., Malanchini, M., Engelhardt, L. E., Madole, J., Tucker-Drob, E. M., & Harden, K. P. (2022). 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
6. 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
7. 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
8. 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
9. Gadd, D. A., Hillary, R. F., McCartney, D. L., Zaghlool, S. B., Stevenson, A. J., 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., Deary, I. J., Porteous, D. J., … Marioni, R. E. (2022). Epigenetic scores for the circulating proteome as tools for disease prediction. *eLife*. https://doi.org/10.1101/2020.12.01.404681
10. 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
11. Domingue, B. W., Kanopka, K., Mallard, T. T., Trejo, S., & Tucker-Drob, E. M. (2022). 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
12. 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
13. 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., Agee, M., Alipanahi, B., Auton, A., Bell, R. K., Bryc, K., Elson, S. L., Fontanillas, P., Furlotte, N. A., … and, A. O. (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
14. 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

15. Cox, S. R., Harris, M. A., Ritchie, S. J., Buchanan, C. R., Hernández, M. C. V., 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

16. 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

17. Fuente, J. de la, Davies, G., Grotzinger, A. D., Tucker-Drob, E. M., & Deary, I. J. (2021). 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

18. Akker, A. L. V. den, 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

19. Buchanan, C. R., Maniega, S. M., Hernández, M. C. V., 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

20. 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

21. 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

22. Linnér, R. K., 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., … and, D. M. D. (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

23. 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. (2021). 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

24. 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*, 1–10. https://doi.org/10.1017/s0033291721004244

25. Lövdén, M., Fratiglioni, L., Glymour, M. M., Lindenberger, U., & Tucker-Drob, E. M. (2020). Education and cognitive functioning across the life span. *Psychological Science in the Public Interest*, *21*(1), 6–41. https://doi.org/10.1177/1529100620920576

26. 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

27. Brumpton, B., Sanderson, E., Heilbron, K., Hartwig, F. P., Harrison, S., Vie, G. Åberge, Cho, Y., Howe, L. D., Hughes, A., Boomsma, D. I., Havdahl, A., Hopper, J., Neale, M., Nivard, M. G., Pedersen, N. L., Reynolds, C. A., Tucker-Drob, E. M., Grotzinger, A., Howe, L., … and. (2020). Avoiding dynastic, assortative mating, and population stratification biases in mendelian randomization through within-family analyses. *Nature Communications*, *11*(1). https://doi.org/10.1038/s41467-020-17117-4

28. Hartung, J., Engelhardt, L. E., Thibodeaux, M. L., Harden, K. P., & Tucker-Drob, E. M. (2020). Developmental transformations in the structure of executive functions. *Journal of Experimental Child Psychology*, *189*, 104681. https://doi.org/10.1016/j.jecp.2019.104681

29. Demeter, D. V., Engelhardt, L. E., Mallett, R., Gordon, E. M., Nugiel, T., Harden, K. P., Tucker-Drob, E. M., Lewis-Peacock, J. A., & Church, J. A. (2020). Functional connectivity fingerprints at rest are similar across youths and adults and vary with genetic similarity. *iScience*, *23*(1), 100801. https://doi.org/10.1016/j.isci.2019.100801

30. Harden, K. P., Engelhardt, L. E., Mann, F. D., Patterson, M. W., Grotzinger, A. D., Savicki, S. L., Thibodeaux, M. L., Freis, S. M., Tackett, J. L., Church, J. A., & 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*, *59*(6), 749–758. https://doi.org/10.1016/j.jaac.2019.05.006

31. Harden, K. P., Domingue, B. W., Belsky, D. W., Boardman, J. D., Crosnoe, R., Malanchini, M., Nivard, M., Tucker-Drob, E. M., & Harris, K. M. (2020). Genetic associations with mathematics tracking and persistence in secondary school. *Npj Science of Learning*, *5*(1). https://doi.org/10.1038/s41539-020-0060-2

32. Malanchini, M., Rimfeld, K., Wang, Z., Petrill, S. A., Tucker-Drob, E. M., Plomin, R., & Kovas, Y. (2020). Genetic factors underlie the association between anxiety, attitudes and performance in mathematics. *Translational Psychiatry*, *10*(1). https://doi.org/10.1038/s41398-020-0711-3

33. Jelenkovic, A., Sund, R., Yokoyama, Y., Latvala, A., Sugawara, M., Tanaka, M., Matsumoto, S., Freitas, D. L., Maia, J. A., Knafo-Noam, A., Mankuta, D., Abramson, L., Ji, F., Ning, F., Pang, Z., Rebato, E., Saudino, K. J., Cutler, T. L., Hopper, J. L., … Silventoinen, K. (2020). Genetic and environmental influences on human height from infancy through adulthood at different levels of parental education. *Scientific Reports*, *10*(1). https://doi.org/10.1038/s41598-020-64883-8

34. Domingue, B., Trejo, S., Armstrong-Carter, E., & Tucker-Drob, E. (2020). Interactions between polygenic scores and environments: Methodological and conceptual challenges. *Sociological Science*, *7*, 365–386. https://doi.org/10.15195/v7.a19

35. Hillary, R. F., Trejo-Banos, D., Kousathanas, A., McCartney, D. L., Harris, S. E., Stevenson, A. J., Patxot, M., Ojavee, S. E., Zhang, Q., Liewald, D. C., Ritchie, C. W., Evans, K. L., Tucker-Drob, E. M., Wray, N. R., McRae, A. F., Visscher, P. M., Deary, I. J., Robinson, M. R., & Marioni, R. E. (2020). Multi-method genome- and epigenome-wide studies of inflammatory protein levels in healthy older adults. *Genome Medicine*, *12*(1). https://doi.org/10.1186/s13073-020-00754-1

36. Harris, S. E., Cox, S. R., Bell, S., Marioni, R. E., Prins, B. P., Pattie, A., Corley, J., Maniega, S. M., Hernández, M. V., Morris, Z., John, S., Bronson, P. G., Tucker-Drob, E. M., Starr, J. M., Bastin, M. E., Wardlaw, J. M., Butterworth, A. S., & Deary, I. J. (2020). Neurology-related protein biomarkers are associated with cognitive ability and brain volume in older age. *Nature Communications*, *11*(1). https://doi.org/10.1038/s41467-019-14161-7

37. Alloza, C., Blesa-Cábez, M., Bastin, M. E., Madole, J. W., Buchanan, C. R., Janssen, J., Gibson, J., Deary, I. J., Tucker-Drob, E. M., Whalley, H. C., Arango, C., McIntosh, A. M., Cox, S. R., & Lawrie, S. M. (2020). Psychotic-like experiences, polygenic risk scores for schizophrenia, and structural properties of the salience, default mode, and central-executive networks in healthy participants from UK biobank. *Translational Psychiatry*, *10*(1). https://doi.org/10.1038/s41398-020-0794-x

38. Malanchini, M., Rimfeld, K., Shakeshaft, N. G., McMillan, A., Schofield, K. L., Rodic, M., Rossi, V., Kovas, Y., Dale, P. S., Tucker-Drob, E. M., & Plomin, R. (2020). Evidence for a unitary structure of spatial cognition beyond general intelligence. *Npj Science of Learning*, *5*(1). https://doi.org/10.1038/s41539-020-0067-8

39. Buchanan, C. R., Bastin, M. E., Ritchie, S. J., Liewald, D. C., Madole, J. W., Tucker-Drob, E. M., Deary, I. J., & Cox, S. R. (2020). The effect of network thresholding and weighting on structural brain networks in the UK biobank. *NeuroImage*, *211*, 116443. https://doi.org/10.1016/j.neuroimage.2019.116443

Preprints

1. 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

2. Kun, E., Javan, E. M., Smith, O., Gulamali, F., Fuente, J. de la, Flynn, B. I., Vajrala, 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

3. 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

4. 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

5. 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

6. 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., … and, A. 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

7. 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

8. 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

9. 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

10. 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

11. Buchanan, C. R., Maniega, S. M., Hernández, M. C. V., 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

12. 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 outcomes distribution and metric properties*. https://doi.org/10.31234/osf.io/932fm

13. 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., … and. (2021). *Within-sibship GWAS improve estimates of direct genetic effects*. https://doi.org/10.1101/2021.03.05.433935

14. 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

15. Linnér, R. K., Mallard, T. T., Barr, P. B., Sanchez-Roige, S., Madole, J. W., Driver, M. N., Poore, H. E., Grotzinger, A. D., Tielbeek, J. J., Johnson, E. C., Liu, M., Zhou, H., Kember, R. L., Pasman, J. A., Verweij, K. J. H., Liu, D. J., Vrieze, S., Kranzler, H. R., Gelernter, J., … and, D. M. D. (2020). *Multivariate genomic analysis of 1.5 million people identifies genes related to addiction, antisocial behavior, and health*. https://doi.org/10.1101/2020.10.16.342501

16. 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., Lee, P. H., Kendler, K. S., Smoller, J. W., … and. (2020). *Genetic architecture of 11 major psychiatric disorders at biobehavioral, functional genomic, and molecular genetic levels of analysis*. https://doi.org/10.1101/2020.09.22.20196089

17. Demange, P. A., Malanchini, M., Mallard, T. T., Biroli, P., Cox, S. R., Grotzinger, A. D., Tucker-Drob, E. M., Abdellaoui, A., Arseneault, L., Caspi, A., Corcoran, D., Domingue, B., Mitchell, C., Bergen, E. van, Boomsma, D. I., Harris, K. M., Ip, H. F., Moffitt, T. E., Poulton, R., … Nivard, M. G. (2020). *Investigating the genetic architecture of non-cognitive skills using GWAS-by-subtraction*. https://doi.org/10.1101/2020.01.14.905794

18. Domingue, B. W., Kanopka, K., Mallard, T. T., Trejo, S., & Tucker-Drob, E. M. (2020). *Distinguishing between interaction and dispersion effects in the analysis of gene-environment interaction*. https://doi.org/10.1101/2020.09.08.287888

Books

Book Chapters

Professional Presentations

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 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*

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

Center on Aging and Population Sciences and Population Research Center, University of Texas at Austin *2022*

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

Life Course Epidemiology course, Department of Epidemiology, Columbia University *2021*

Using Genome-Wide Data to Investigate the Joint Genetic Architecture of Complex Traits

Russell Sage Foundation Summer Institute in Social-Science Genomics *2021*

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

Department of Epidemiology, Columbia University *2021*

Using Genomic SEM to Apply Social Science Models to Genetic Data

Center For Demography Of Health And Aging, University of Wisconsin-Madison *2021*

Using Genome-Wide Data to Investigate the Joint Genetic Architecture of Complex Traits

Department of Psychology, University of Southern California *2020*

Cognitive Aging and Dementia: A Life-Span Perspective

Healthy Ageing Conference, Royal Society, London, UK *2020*

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

Center for Population Health Sciences, Stanford University *2020*

Conference Abstracts

Honors

Article of the Year Award for: Lövdén, M., Fratiglioni, L., Glymour, M. M., Lindenberger, U., & Tucker-Drob, E. M. (2020). Education and cognitive functioning across the lifespan. Psychological Science in the Public Interest, 21, 6-41. *Nordic Mensa Fund, SE*

Mensa International Ltd *2021*

Funding

Jacobs Foundation Advanced Research Fellowship (PI) *Jacobs Foundation,*

Funding: $440,000 *2018 - 2021*

Cortisol, Socioeconomic Status, and Genetic Influences on Cognitive Development (PI) *National Institute of Child Health and Human Development, R01HD083613*

Funding: $2,970,899 *2016 - 2021*

Service

University of Texas at Austin *Austin, US*

Co-Primary Research Mentor for UT Postdoctoral Trainee with K. P. Harden *2022 - present*

Center on Aging and Population Sciences (CAPS) *Austin, US*

Faculty Council *2020 - present*

Psychological Bulletin — *Washington DC, US*

Consulting Editor — *2020 - present*

Major Research Institutions — *N/A, US*

External Reviewer: Tenure and Promotion — *2019 - present*

National Institutes of Health — *Bethesda, US*

Reviewer/Ad Hoc Study Section Member: NMBH (2022), ZRG1 PSE L 90 (2021), ZRG1 PSE-Z(02) / N(07) (2020), BGES (2019), CHHD W (2018) — *2018 - present*

The University of Texas at Austin — *Austin, US*

I organize free one-time methodological workshops on special topics that are not well-covered by existing course offerings at UT — *2018 - present*

Mentorship for Undergraduate Research Interns — *Austin, US*

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. — *2009 - present*

Ad Hoc Reviewer: Selected Journals — *N/A, US*

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 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 — *2009 - present*

The University of Texas at Austin — *Austin, US*

Statistical advice for students who have previously completed my course in Structural Equation Modeling — *2009 - present*

Diversity in Cognitive Aging Search Committee — *Austin, US*

2020 - 2021

Merit Review Committee — *Austin, US*

2018 - 2020

Psychology and Aging (Journal) — *Washington DC, US*

Consulting Editor: Psychology and Aging — *2014 - 2020*

Intelligence (Journal) — *N/A, US*

Editorial Board Member — *2013 - 2020*

Mentoring and Teaching

Mentoring

Ted Schwaba, Ph.D., incoming Assistant Professor at Michigan State University in Fall 2023

Primary Research Mentor for UT Postdoctoral Fellow — *2021 - present*

Aditi Sabhlok

Dissertation Committee Member — *2021 - 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 — *2019 - present*

Aditi Sabhlok

Secondary Research Mentor with K. P. HardenSecondary Research Mentor for UT Graduate Student with K. P. Harden — *2017 - present*

James Madole

Co-Primary Research Mentor for UT Graduate Student with K. P. Harden — *2017 - present*

James Madole

Dissertation Co-Chair — *2021 - 2022*

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

Primary Research Mentor for UT Postdoctoral Fellow — *2020 - 2022*

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

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*

Andrew D. Grotzinger (currently Assistant Professor at University of Colorado Boulder)

Dissertation Co-Chair — *2019 - 2020*

Megan Patterson

Dissertation Committee Member — *2018 - 2020*

Teaching

Psychology

Instructor for Structural Equation Modelling (PSY 384T) [one semester per year] — *2009 - present*

Psychology

Instructor for Individual Differences (PSY 345) [one semester per year] — *2009 - present*