

Publications

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>
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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>
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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>

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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>
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45. 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>

46. 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>

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>
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5. 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>
6. 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>
7. 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., Stolcyn, 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>
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11. 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>
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BOOKS

BOOK CHAPTERS

Professional Presentations

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
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

Conference Abstracts

Honors

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.	<i>International, US</i>
INTERNATIONAL SOCIETY OF PSYCHIATRIC GENETICS	2023
Article of the Year Award for: Lövdén, M., Fratiglioni, L., Glymour, M. M., Lindenberg, U., & Tucker-Drob, E. M. (2020). Education and cognitive functioning across the lifespan. Psychological Science in the Public Interest, 21, 6-41.	<i>Nordic Mensa Fund, SE</i>
MENSA INTERNATIONAL LTD	2021

Funding

Pending Grant (1st percentile): Epigenetic Pathways of Socioeconomic Disparities in Physical and Cognitive Health Across the Lifespan (Co-I)	<i>NICHD, R01HD114724</i>
FUNDING: \$3,345,489	2024 - 2029
Large-Scale Genomic Analysis of Aging-Related Cognitive Change Prior to Dementia Onset (PI)	<i>National Institute on Aging, R01AG073593 (2 years following 3 years of RF1 AG073593)</i>
FUNDING:	2024 - 2026

Dissecting the Multivariate Genetic Architecture of Psychiatric Diseases

FUNDING: \$2,647,625

NIMH, R01MH120219

2020 - 2025

Large-Scale Genomic Analysis of Aging-Related Cognitive Change Prior to Dementia Onset

FUNDING: \$2,060,713

National Institute on Aging,

RF1AG073593

2021 - 2024

Environmental, Genetic, and Epigenetic Mechanisms for Hormonal Change (Co-I)

FUNDING: \$3,328,440

National Institute of Child Health

and Human Development,

R01HD092548

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

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

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

Annual Reviews

EDITORIAL COMMITTEE (STANDING MEMBER)

Palo Alto, 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

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*