John Keith Hewitt

CURRICULUM VITAE

PERSONAL INFORMATION

Year and place of birth 1952; Hampshire, England

Citizenship United States (naturalized June, 1996)

Office address

Institute for Behavioral Genetics
University of Colorado Boulder
447 UCB
Boulder, CO 80309-0447

EDUCATION

B.Sc. (1st Class Honours) Psychology 1973. University of Birmingham, UK.
Minor subjects: Philosophy, Genetics.

M.Sc. Applied Genetics, 1974.University of Birmingham, UK.

Ph.D.1978 Psychology. Institute of Psychiatry, Kings College, Univ. of London, UK

B.A. 1982 Mathematics. Open University, UK

ACADEMIC APPOINTMENTS

July 2001 – February 2022, Director, Institute for Behavioral Genetics, University of Colorado Boulder, Colorado, USA

August 1992 - present, Professor of Psychology and Neuroscience, University of Colorado Boulder, Colorado, USA

August 1992 – present, Faculty Fellow, Institute for Behavioral Genetics, University of Colorado Boulder, Colorado, USA.

July 1990 - August 1992, Associate Professor, Department of Human Genetics, Medical College of Virginia, Richmond, Virginia, U.S.A.

July 1986 - June 1990, Assistant Professor, Department of Human Genetics, Medical College of Virginia, Richmond, Virginia, U.S.A.

September 1977 - August 1987, Asst. Prof. (1977-80), then Associate Prof. (1980-87) with tenure, Department of Psychology, University of Birmingham, UK

AWARDS and FELLOWSHIPS

Awards

Open Scholarship, Birmingham University, 1970.

Undergraduate Prize, Birmingham University, 1973.

First Class Honors, Birmingham University, 1973.

Dobzhansky Award for lifetime achievement in behavior genetics, 2008

Dept. of Psychology and Neuroscience, University of Colorado, Faculty Research Award, 2010

James Shields Award for lifetime contributions to twin research, 2016.

Fellowships

Bethlehem-Maudsley Research Fellow, 1974-1977.

EMPIRICAL RESEARCH SUPPORTED BY EXTERNAL FUNDS

CURRENT ACTIVE SUPPORT

5 U01 DA051018 (mPIs Banich, Friedman) 04/15/20-03/31/27
NIH/NIDA
14/21 ABCD-USA consortium: research project site at CU Boulder
The ABCD Study consortium uses multimodal brain imaging, cognitive and clinical assessments, bioassays, mobile monitoring, and careful assessment of substance use, environment, psychopathological symptoms, and social functioning in 11,878 9-10 year-olds to be followed over 10 years, to determine the effects of substance use on adolescent brain and cognitive development. This ABCD Research Project Site will follow and assess participants enrolled in the study. These data will be shared with the scientific community to address a comprehensive range of questions concerning youth development.
Role: **co-Investigator**

5 R01 AG046938-05 (Reynolds) 06/01/15-05/31/26
NIH/NIA
Colorado Adoption/Twin Study of Lifespan Behavioral Development & Cognitive Aging Subcontract to Institute for Behavioral Genetics (Wadsworth)

This unparalleled combined adoption/twin study will contribute to a greater prospective understanding of the manner in which cognitive abilities and physical health in early life mutually promote cognitive functioning as individuals approach midlife. An improved understanding of genetic and environmental influences and how they interact with early life factors to affect adult outcomes may contribute to improved cognitive and physical functioning and well-being, as well as to better health education and services.
Role: **co-Investigator**

RECENTLY COMPLETED RESEARCH SUPPORT

1 R01 DA054087 (mPIs Rhee, Keller**,** Vrieze, Wilson) 5/01/22-02/28/27

Understanding the links between parental and adolescent substance use: complementary natural experiments using the children of twins design

Rigorous evaluation of how parents shape their children's behavior has major implications for our understanding of family functioning and motivates policies or interventions promoting specific parenting practices. We propose examining the intergenerational impact of marijuana use and disorder using two complementary natural experiments in 6,457 individuals from 1,902 families in Colorado and Minnesota. We will use the children of twins design to test the extent of direct environmental impact of parents while controlling for genetic confounds, and conduct a state-by-state comparison of parental and adolescent marijuana use and disorder, parenting practices, and family environment, leveraging the marked differences in marijuana laws and substance use norms in Colorado and Minnesota.
Role: **co-Investigator (until 12-31-24, then retired from project)**

5 R01 DA042755 (mPIs Hopfer, **Hewitt**, Vrieze, McGue) 09/01/17-05/31/24
NIH/NIDA (no cost extension period)
Impact of marijuana legalization: comparison of two longitudinal twin cohorts.
Subcontract to Institute for Behavioral Genetics (**Hewitt**)
Legal recreational marijuana use has major public health implications. It is unknown, however, under legal recreational marijuana, how substance use patterns will change and what effects this will have on users. We will compare two large samples of twins, one in Colorado (a State with legalized recreational marijuana) and one with in Minnesota (a State with only very limited access for medical use), whose marijuana and other substance use patterns have been studied for over 15 years.
Role: **mPI**

3R01DA042755-04S1(mPIs Hopfer, **Hewitt**, Vrieze, McGue) 06/01/20-05/31/22
NIH/NIDA
Impact of marijuana legalization: comparison of two longitudinal twin cohorts. (Supplement)
Role: **mPI**

OTHER COMPLETED RESEARCH SUPPORT

5 T32 MH016880-38 (Keller/Friedman, **Hewitt** through 09-2023)
07/01/20-06/30/25
NIH/NIMH
Research Training in Mental Health Behavior Genetics
This grant supports 4 doctoral students and 1 postdoctoral fellow to received training in the methods of behavior genetics research and their application to mental health and psychological disorders. Role: PI (07/01/20 – 09/31/23)

5 R25 MH019918-27 (Keller, previously **Hewitt** through 05-2021) 07/01/18-06/30/23
NIH/NIMH
Workshop on Statistical Genetic Methods for Human Complex Traits
The major goal of this project is to provide five training and information-sharing workshops for researchers involved in twin atnd family genetic epidemiology studies wishing to learn the latest methodology for data analysis and experimental design.
Role: co-I

2 T32 DA017637-16 (Stitzel, previously **Hewitt** through 09-2021) 07/01/19-06/30/24
NIH/NIDA
Research Training --- Genetics of Substance Abuse
This grant supports 4 doctoral students and 2 postdoctoral fellows to received training in the methods of behavior genetics research and their application to substance abuse.
Role: PI

5 U01 DA041120-05 (mPIs Banich, **Hewitt**) 09/30/15-05/31/20
NIH/NIDA
ABCD-USA Consortium: Research Project Subcontract to Institute for Behavioral Genetics
For the proposed project the University of Colorado will collect, store, organize, transmit, retrieve, analyze and publish project data. These tasks will be coordinated by the Adolescent Brain and Cognitive Development, ABCD, Consortium's Coordinating Center, Informatics Core, the Twin Hub's Principal Investigators and NIH staff.
Role: mPI

5 R01 MH063207-14 (Friedman) 02/15/14-01/31/20
NIH/NIMH
Neural Substrates of Executive Function: An fMRI Twin Study
This research aims to conduct structural and functional MRI studies in 320 young adult twin pairs who have been studied longitudinally since infancy. Determining the extent to which functional variation in neural circuits supporting EF is itself heritable, or influenced by environmental factors, will provide information critical to understanding the role of neural circuits in mediating the genetic and environmental vulnerability to mental illness.
Role: **Hewitt co-I**

5 R01 AA023974-03 (Vrieze) 09/25/14–08/30/18
NIH/NIAAA
Social Media, Online Measures, and Substance Use Development in Adolescent Twins

This genetically informative longitudinal twin study investigates the environmental and genetic relationships between social media and substance use in an adolescent sample. Role: **Hewitt** co-I

5 P60 DA 011015 (**Hewitt** - Director of Center) 05/01/09-02/28/15
NIH/NIDA
Center on Antisocial Drug Dependence: The Genetics of HIV Risk Behaviors

5 R01 DA012845 (**Hewitt**) 07/15/08-12/31/13
NIH/NIDA
Genetics of Adolescent Antisocial Drug Dependence (COMRAD)

5 R01 MH063207-09 (**Hewitt**) 09/01/08-05/31/13
NIH/NIMH
Executive Functions and Self-Regulation: A Twin Study

5 R01 MH063207-09S1 (**Hewitt**) Supplement to above 06/01/12-05/31/13

5 P50 MH079485-04 (Banich) 04/22/08-01/31/13
NIH/NIMH
IBSC: Determinants of Executive Function and Dysfunction (Banich)
Subcontract to Inst for Behavioral Genetics (Friedman)
-Project 4: Genetic Mechanisms of Executive Functions (Role: co-I **Hewitt**)

NIH/NICHD- "The National Longitudinal Study of Adolescent Health; Project V: Gene*Environment Contributions to Drug Use and Problem Behavior Trajectories," 5 P01 HD031921-15, 01/01/06-12/31/11,
(subcontract to IBG), subcontract PI: **Hewitt**

NIH/NICHD- "Testing a Developmental Model of Conduct Problems," 5 R01 HD050346-02, 09/01/07-06/30/12, Co-Investigator: **Hewitt**

NIH/NIMH- "Abnormal Eye Movement in Schizophrenia: Genome-Wide Scan," 5 R01 MH066115-05, 01/09/04-12/31/09, (subcontract to IBG), Co-Investigator: **Hewitt**

John Templeton Foundation- "The genetics of high cognitive abilities," 09/01/08-12/31/10, Co-Investigator: **Hewitt**

NIH/NIMH-" Executive Functions and Self-Regulation: A Twin Study," 2 R56 MH063207-06A1, 06/01/01-05/31/08, **PI: Hewitt**

NIH/NIMH- "Workshop on Methodology of Twin Studies," 5 R25 MH019918-15, 07/01/03-06/30/08, **PI: Hewitt**

NIH/NEI-"Variance Component Models for Mapping QTLs," 5 R01 EY012562-08, 09/01/02-08/31/08, **PI: Hewitt**

NIH/NIDA-"Genetics of Adolescent Antisocial Drug Dependence," Sub-component to the Inst. for Beh. Genetics, DA 012845, 09/15/00-02/28/06, Co-Investigator, **Hewitt**

NIH/NIAAAB"NYS Family Study: Problem Alcohol Use and Problem Behavior," Sub-component to the Inst. for Behav. Genetics, AA 011949, 09/30/00-08/31/05, **PI: Hewitt**

NIH/NIAAAB"Alcohol Dependence: Integrating Genetic & fMRI Methods," AA 011473, 05/05/05-06/30/10, Co-Investigator: **Hewitt**

NIH/NIDAB"Progress of craving and addiction: Genetic factors," DA14642, 12/01/01-11/30/06, Co-Investigator: **Hewitt**

NIH/NIAAAB "NYS Family Study: Problem Alcohol Use and Problem Behavior," AA11949, 09/30/00-08/31/06, co-PI: **Hewitt**

NIH/NICHDB"Determinants of Behavioral Development in Children," HD 010333, 06/01/03-05/31/07, Co-Investigator, **Hewitt**

NIH/NIAAAB"Genetic Association and Stratification," AA 014250, 09/30/03-08/31/06, Co-Investigator: **Hewitt**

NIH/NICHDB"Behavioral Genetic Analysis of Adolescent Health Risk," Sub-component to the Inst. for Behav. Genetics, HD 031921, 07/01/02-01/31/04, Principal Investigator, $105,314, 5% academic year effort & 5% summer effort

NIH/NICHDB"Research TrainingBDevelopmental Behavioral Genetics," Competitive Renewal, 2732HD07289, 09/01/00-04/30/05, **PI: Hewitt**

NIH/NIAB"Biometrical Analysis of Personality in Adulthood," AG 17949, 04/01/00-03/31/03, co--Principal Investigator: **Hewitt**

NIMHB"Transition into Early Adolescence," MH43899 (renewal), 03/01/00-11/30/03, **PI: Hewitt**

John D. and Catherine T. MacArthur Foundation "Family Influences on Behavioral Development," 99-59585 HCD, 11/01/99-12/31/01, **PI: Hewitt**

NIH/NEIB"Variance Components Models for Mapping QTLs," EY 12562, 12/07/98-11/30/02, **PI: Hewitt**

NIMHC"Workshop on Methodology of Twin Studies," MH19918, (renewal), 09/01/98-08/31/03, **PI: Hewitt**

NIH/NICHD--"Nature and Nurture in Social Demography: An Adoption Study," HD 36773, 08/01/98-05/31/03, Co-Investigator: **Hewitt**

NICHD--"Determinants of Behavioral Development in Children," HD10333, (competitive renewal), 06/01/98-05/31/03, Co-Investigator: **Hewitt**

The William T. Grant Foundation--"Origins of Successful and Unsuccessful Transitions to Adulthood: The Colorado Adoption Project (CAP)," 98162094, 06/01/98-05/31/01, **PI: Hewitt**

NIDA--"Antisocial Drug Dependence: Genetics and Treatment," DA11015, 08/01/97-06/30/02:

"Component I: Adolescent Drug/Alcohol Dependence: Genetics and Treatment," Boulder Component, **PI: Hewitt**

"Component IV: Heritable Early Indicators of Risk for Drug Dependence," **PI: Hewitt**

"Administrative/Educational, Core A, UCB" Co-Investigator: **Hewitt**

"Genetics and Treatment, Assessment Core B, UCB" **PI: Hewitt**

Veteran's Administration, Research Center for Basic and Clinical Studies of Alcoholism--"Human Genetics Core" and "Heritable Early Indicators of Alcohol Abuse" components, V554P-3828/3829, 07/1/96-03/01/99. **PI: Hewitt**

NICHD--"A Twin/Adoption Study of Development in Middle Childhood," HD 18426-15, 06/01/96-05/31/99, Co-Investigator: **Hewitt**

NIMH--"Workshop on Methodology of Twin Studies," MH19918, 09/01/95-08/31/98, **PI: Hewitt**

NIMH--"Transition into Early Adolescence: A Twin/Adoption Study," MH43899, 12/01/94-11/30/99, **PI: Hewitt**

NIMH--"Adolescent Behavioral Development: A Twin Study," MH45268, (renewal) 05/01/94-04/30/99, (PI-ship transferred to L.J. Eaves following my relocation to Colorado) priority score 117 in top 3%, 1989-94, **PI: Hewitt**

John D. and Catherine T. MacArthur Foundation--"MacArthur Longitudinal Twin Study: A Proposal to Study Individual Differences in Adaptation Processes and Outcomes at Seven Years," 93-24177A, 07/01/93-06/30/00, **PI: Hewitt**

NICHD--"Determinants of Behavioral Development in Children," HD10333, 06/01/93-05/31/98, Co-Investigator: **Hewitt**

NIDA--"Adolescent Substance Abuse and Their Families," DA05131, Component 2 (PI:Fulker), Drug Abuse Research Center (PI:DeFries), 1993-1997, Co-Investigator: **Hewitt**.

NIMH--"Workshop on Methodology of Twin Studies," MH19687, 09/92-08/94, **PI: Hewitt**

Carman Trust for Scientific Research--"Genetics and Development of Adolescent Mental Health," **PI: Hewitt.** PI-ship transferred to J. Meyer following my relocation to Colorado in 1992

NIMH--"Workshop on Twin Methodology," MH19392, 1990--short term training grant, (Priority Score in top 5%) **PI: Hewitt**

NIAAA--"Personality and Clinical Psychobiology: Genetics," AA08672, 1990-1994, **PI: Hewitt**

NHLBI--"Childhood Passive Smoking: Cohort Study of Cardiac Risk," HL38878, 04/01/89-94, Co-Investigator: **Hewitt**

NHLBI--"Longitudinal Twin Study: Cohort Study of Blood Pressure," HL31010, 08/88-07/93, Co-Investigator: **Hewitt**

NIA "Genetic Models of Development and Aging," AG04954, (renewal), 07/88-06/93, Co-Investigator: **Hewitt**

NIGM "Resolving Power of Kinship Analysis for Genetic Research," GM30250, 02/86-01/91, Co-Investigator: **Hewitt**

Neuropsychological investigations of children at high risk for schizophrenia: extension. Mental Health Foundation support, 1986. **PI: Hewitt**

NIAAA "Biological and Cultural Determinants of Alcoholism," AA06781, 08/85-07/89, Co-Investigator: **Hewitt**

Genetic and environmental analysis of cardiac reactivity and hypertension. MRC project grant jointly with Drs. D. Carroll (PI), K. Last and Professor J.L. Jinks. 1984-1987. Co-investigator: **Hewitt**

Neuropsychological investigations of abnormal interhemispheric integration and anomalous lateralization of function in children at high risk for schizophrenia. Research grant from Mental Health Foundation. 1984-1986. **PI: Hewitt**

Genetic and environmental determinants of cardiac reactivity and hypertension. Supported by project grant from the (British) Medical Research Council, 1982-1983, jointly with Dr. Carroll (PI) and K. Last. Co-investigator: **Hewitt**

MAJOR COMMITTEES and HONORS

Member, Conference Committee for 1983 Behavior Genetics Association meeting.
Member of the Committee of the Psychobiology Section of the British Psychological Society 1983-1985.
Member of the Publication and Communications Committee of the Behavior Genetics Association, 1984-1987.
Co-organizer, 3rd William Patterson College Symposium on Social Behavior: Developmental behavior genetics in an evolutionary context. November 1986.
Elected Secretary to the Behavior Genetics Association, 1989-1992.
Organizing committee 2nd, 3rd, 4th, 5th and 6th International Workshop on Twin Methodology. Leuven, Belgium, September, 1989, 1991; Boulder, Colorado, July, 1990, spring, 1993, winter 1994.
Emotion and Personality Review Committee, National Institute of Mental Health, 1992-1994.
Chairman, Professional Training Subcommittee of the Behavior Genetics Association 1992-1995.
Epidemiology Review Committee, National Institute of Mental Health, 1994-1997.
President-Elect, Behavior Genetics Association, 1999-2000.

President, Behavior Genetics Association, 2000-2001.
Chair, APA working group on genetics research issues, 2002.
Dobzhansky Award for outstanding lifetime research accomplishment in the field of behavioral genetics, June, 2008.
Invited reviewer for German Science Council, Berlin, Germany, April, 2009.
Invited reviewer for Public Health Research Center, University of Hong Kong, August, 2009.
Department of Psychology and Neuroscience Faculty Research Award, 2010.
James Shields Award for lifetime contributions to twin research, 2016.
Co-Chair ABCD Genetics Workgroup, 2018 --- 2022
Member, Program (previously `Scientific') Advisory Board, National Consortium on Alcohol & Neurodevelopment in Adolescence, 2018 -- 2022
Advisory Board, Summer Institutes in Statistical Genetics, University of Washington, 2019 --- 2022
Advisory Board, T32 program in Transdisciplinary training in sleep and circadian rhythms, University of Colorado Boulder, 2019 --- 2022
Advisory Board, R25 Short course on "Strengthening the Causal Inference in Behavioral Obesity Research", Indiana University School of Public Health, 2015 --- 2020

DOCTORAL AND POSTDOCTORAL SUPERVISION

PRIMARY MENTORSHIPS

Genetic architecture of courtship, courtship modification, conditioning and activity in Drosophila melanogaster.
M.F. Collins, 1980-1983, Ph.D. awarded 1983

Interhemispheric transfer deficits in children at risk for schizophrenia
S. Hallett, 1983-1987, Ph.D. awarded 1987

Familial aspects of hypertension
Jane Sims, 1984-88 (supervised jointly with Dr. D. Carroll), Ph.D. awarded 1988.

Development of interhemispheric transfer deficits in children at risk for schizophrenia
D. Quinn, 1985-1986

Genetic and environmental influences on smoking and motives for smoking
L. Gynther, Institute for Behavioral Genetics, 1992-94, Ph.D. awarded

Michael Stallings (postdoctoral fellow, 1993-94)

Chandra Reynolds (postdoctoral fellow, 1994-95)

Marianne Wambolt, MD (K08, Mentored Clinical Scientist; genetic and social influences on youth health behavior. 1997-2002)

Bo Bishop (postdoctoral fellow, 1998-2001)

Soo Rhee (postdoctoral fellow, 1999-2001)

A twin study of genetic and environmental influences on anxiety during childhood and adolescence
T. Topolski, Institute for Behavioral Genetics, 1993-97, Ph.D. awarded

Life events and depressed mood
J. Lessem, Institute for Behavioral Genetics, 1993-1999, Ph.D. awarded

Temperament through middle childhood
Carol van Hulle, Institute for Behavioral Genetics, 1996-2001, Ph.D. awarded

Steve Wilson (doctoral student, 1993-2002, incomplete)

Elise Eller (postdoctoral fellow, 2001-2002)

Genes, development, and externalizing behaviors during middle childhood and adolescence
Brett Haberstick, Institute for Behavioral Genetics, 2000-05, Ph.D. awarded

Naomi Friedman (postdoctoral fellow, 2002-2005)

Tanya Button (postdoctoral fellow, 2005 - 2006)

Christian Hopfer, M.D. (K08, Mentored Clinical Scientist, 1999-2004)

David Timberlake (postdoctoral fellow, 2003 - 2006)

Soo Rhee (KO1, Mentored Scientist, 2001-2006)

Susan Young (KO2, Mentored Scientist, 2001-2006)

Marissa Ehringer, PhD (K01, Mentored Scientist, 2005-2010)

Joe Sakai , MD (K08, Mentored Clinical Scientist, 2005-2010)

Jason Boardman, PhD (K01, Mentored Scientist, 2005-2010)

Development of drug abuse and co-morbid disorders
Rohan Palmer, Insititute for Behavioral Genetics, 2005 – 2010, Ph.D. awarded

The etiology of executive function and general cognitive ability
Angela Brant, Institute for Behavioral Genetics, 2007-2012, Ph.D. awarded

Evolutionary roles of homozygosity & copy number variation in mental disorders
Matthew Keller, PhD (K01, Mentored Scientist, 2010-2014)

Behavior genetic models of causation relating environments to psychopathology
Teresa deCandia (doctoral student, 2009- 2012) Then mentored by Matt Keller, Ph.D. awarded.

Chelsie Benca (doctoral student, 2011-13) Genetics of executive functions. Then mentored by Naomi Friedman. PhD awarded.

Kristin Rasmus (doctoral student, 2014-16, graduated 2016) Previously mentored by Dr. Cooper. Then primarily mentored by Prof. Ehringer with me as co-mentor for administrative purposes. PhD awarded.

Sam Dolzani (doctoral student, 2014-17) Primarily mentored by Prof. Maier with me as co-mentor for

administrative purposes. PhD awarded.

J. Megan Ross (postdoctoral trainee, 2017-2020) Impact of legalization on cannabis use and its consequences. NIDA T32 postdoctoral fellow.

Evan Winiger (doctoral student, 2017 - 2021) Cannabis use, sleep problems, genetics, NIDA T32 graduate trainee PhD awarded.

Katie Paulich (doctoral student, 2019 -) Internalizing pathways to risky sexual behavior, NIMH T32 graduate trainee. Co-mentored with Michael Stallings. Mentorship transferred to Michael Stallings from 01-01-2022.

J. Megan Ross (postdoc, 2017 – 2020; K23, Mentored Clinical Scientist, 2021-2026)

GRADUATE STUDENT COMMITTEES FOR:

Medical College of Virginia/Virginia Commonwealth University

Sally Hunsberger (Biostatistics Ph.D.)
Jennifer Stainer (Human Genetics Ph.D.)
Debbie Bowles (Human Genetics Ph.D.)
Robert DaMensah (Biostatistics Ph.D.)
Judy McLaughlin (Human Genetics, Ph.D.)
Laura Truskowski (Biostatistics, M.S.)
Audrey Schuler (Social Work, Ph.D.)
Marianne Van Den Bree (Human Genetics, Ph.D.)
Jeanine Gau (Psychology, Ph.D.)

University of Colorado

Stacey Cherny (Psychology, Ph.D.)
Larry Rodriguez (Psychology, Ph.D.)
Stephanie Schmitz (Psychology, Ph.D.)
Maricela Alarcón (Psychology, Ph.D.)
Donna Miles (Psychology, Ph.D.)
Valerie Knopik (Psychology, Ph.D.)
Marcie Chambers (Psychology, Ph.D.)
Javier Gayán (Psychology, Ph.D.)
Naomi Freedman (Psychology, Ph.D.)
Erin Bissel (EPOB, Ph.D.)
Robert Buchwald (EPOB, Ph.D.)
Heather Gelhorn (Psychology, Ph.D.)
Noa Heiman (Psychology, Ph.D.)
Laura Sobik (Psychology, Ph.D.)
Rohan Palmer (Psychology, Ph.D.)
Angela Brant (Psychology, Ph.D.)
Robert Jay Schulz-Heik (Psychology, Ph.D.)
Angela Friend (Psychology, Ph.D.)
Melissa Munn (Psychology, Ph.D.)
Dan Johnson (Psychology, Ph.D.)
Matt Simonson (Psychology, Ph.D.)
Joanne Vandever (Psychology, Ph.D.)
Dan Johnson (Psychology, Ph. D.)

Ashley Smith (Psychology, Ph.D.)
Brooke Huibregste (Psychology, Ph. D.)
Kerri Woodward (Psychology, Ph. D.)
Chelsie Benca (Psychology, Ph. D.)
Sam Dolzani (Psychology, Ph. D.)
Maia Frieser (Psychology, Ph. D.)
Emma Johnson (Psychology, Ph. D.)
Kristin Rasmus (Psychology, Ph. D.)
Richard Border (Psychology, Ph. D.)
Alta DuPont (Psychology, Ph.D.)
Mengzhen Liu (Psychology, Ph. D.)
Maya Reiselbach (PsychologyPh.D.)
Claire Morrison (Psychology, Ph.D.)
Sam Freis (Psychology, Ph.D.)
Jared Balbona (Psychology, Ph.D.)

TEACHING

Teaching chronology:

Demonstrator to Introductory Statistics Course. Extramural Department, University of Birmingham, 1974.

Tutor to Open University Summer School, Quantitative Genetics, 1977, 1978; Introduction to Psychology, 1981, 1982, 1983.

1977 - 1985

Lecturer in Introductory Statistics, Psychometrics. Personality Measurement, Research Methodology and Behavior Genetics on undergraduate courses in the Department of Psychology, University of Birmingham.

Lecturer in Quantitative Methods and Research Methodology on postgraduate course in Clinical Psychology and Doctoral Programme, Department of Psychology, University of Birmingham.

Tutor to Psychological Measurement course, Extramural Department, University of Birmingham, 1979.

Tutor to Introduction to Statistics for Psychology and Education, Extramural Department, University of Birmingham, 1982.

Tutor to Research Methods in Education and Social Science at Undergraduate and Postgraduate Level, Open University, 1983, 1984, 1985.

1985-86

Lecturer in Behavior Genetics (course BIPY 475) and Genetics of Psychopathology (course BIPY 399) to Biopsychology Honors Program and Lecturer in Research Methods (course BID 533) to Graduate Program in Biology. Department of Biology, William Patterson College of New Jersey, U.S.A.

1986-88

Contributing lecturer to courses 501 Introduction to Human Genetics, 519 Quantitative Genetics and 520 Principles of Human Behavior Genetics (course organizer) in Department of Human Genetics,

Virginia Commonwealth University, Richmond, VA, USA.

1988-92
As 1986-88, plus GN502 Advanced Human Genetics and M1 Human Genetics.
Fall 1992, contributing lectures to Quantitative Human Sociobiology.

1992-93
Genetics and Developmental Psychopathology (Psychology 4525).
Contributing faculty for Introduction to Behavior Genetics (Psychology 4102)

1993-94
Seminar: Behavior Genetics (Psychology 7102)
Behavioral Genetics (Psychology 4102/5102)

1994-95
Seminar: Behavioral Genetics (Psychology 7102)
Concepts in Behavioral Genetics (Psychology 5112)
Behavioral Genetics (Psychology 4102/5102)

1995-96
Seminar: Behavioral Genetics (Psychology 7102)
Behavioral Genetics (Psychology 4102/5102)
Behavioral Genetics Lab (Psychology 4112)

1996-97
Seminar: Behavioral Genetics (Psychology 7102)
Behavior Genetics (Psychology 4102/5102)
Behavior Genetics Lab (Psychology 4112)

1997-98
Behavioral Genetics Lab (Psychology 4112)
Behavioral Genetics (Psychology 4102/5102)
Concepts in Behavioral Genetics (Psychology 5112)
Biometrical Methods/Behav Genetics (Psychology 5242)

1998-99
Seminar: Behavioral Genetics (Psychology 7102)

1999-2000
Biometrical Methods/Behav Genetics (Psychology 5242)

Fall 2000
Concepts in Behavioral Genetics, (Psychology 5112)
Computer Systems

Spring 2001
Concepts in Behavioral Genetics, (Psychology 5112)
Benchmark Papers in Behavior Genetics

Fall 2001

Biometrical Methods in Behavior Genetics (Psychology 5242)

Fall 2002
Research in Behavioral Genetics (Psychology 7012)

Spring 2003
Seminar: Behavioral Genetics (Psychology 7102)

Fall 2003
Biometrical Genetics (Psychology 5242)

Spring 2005
Seminar: Behavioral Genetics (Psychology 7102)

Fall 2006
Seminar: Behavioral Genetics (Psychology 7102)

Spring 2007
Concepts in Behavioral Genetics (Psychology 7102)

Spring 2008
Concepts in Behavioral Genetics (Psychology 7102)

Spring 2009
Seminar: Behavioral Genetics (Psychology 7102)

Spring 2011
Seminar: Behavioral Genetics (Psychology 7102)

Spring 2013
Seminar: Behavioral Genetics (Psychology 7102)

Spring 2015
Biometrical Genetics (Psychology 5242)

Spring 2016
Seminar: Behavioral Genetics (Psychology 7102)

Fall 2017
Seminar: Behavioral Genetics (Psychology 7102)

Fall 2018
Biometrical Genetics (Psychology 5242)

Fall 2019
ABCD: the Adolescent Brain Cognitive Development study (Psychology 7102)

Spring 2020
Benchmark papers in Behavioral, Psychiatric, and Statistical Genetics (Psychology 7102)

Spring 2021

ABCD: the Adolescent Brain Cognitive Development study (Psychology 7102)

WORKSHOPS AND CONFERENCES: TEACHING AND ORGANIZATION

Contributing Faculty for the Second International Course on Twin Methodology, Leuven, Belgium, Sept. 1989,
the Third International Workshop on Twin Methodology, Boulder, Colorado, July 1990,
the Fourth International Workshop on Twin Methodology, Leuven, Belgium, Sept. 1991,
the Fifth International Workshop on Twin Methodology, Boulder, Colorado, May, 1992,
the Sixth International Workshop on Twin Methodology, Boulder, Colorado, March, 1994,
the Seventh International Workshop on Twin Methodology, Helsinki, Finland, Sept., 1995,
the Eighth International Workshop on Twin Methodology, Boulder, Colorado, March, 1996.

Host organizer and faculty of Ninth International Workshop on Twin Methodology, Boulder, Colorado, March, 1997.

Host organizer and faculty of Tenth International Workshop on Twin Methodology, Boulder, Colorado, March, 1998.

Contributing faculty to the NATO Advanced Study Institute on Statistical Methods for Genetic Studies, Eleventh International Workshop on Twin Methodology, Leuven, Belgium, Sept., 1998.

Host organizer and faculty of Twelfth International Workshop on Twin Methodology, Boulder, Colorado, March, 1999.

Host organizer and faculty of Thirteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2000.

Program chair, 30th Annual Meeting, Behavior Genetics Association, June 28-July 1, 2000, Burlington, VT.

Host organizer of Fourteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2001.

Host organizer and faculty of Fifteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2002.

Host organizer and faculty of Sixteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2003.

Host organizer and faculty of Seventeenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2004.

Host organizer and faculty of Eighteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2005.

Host organizer and faculty of Nineteenth International Workshop on Twin Methodology, Boulder, Colorado, March, 2006.

Host organizer and faculty of Twentieth International Workshop on Twin Methodology, Boulder, Colorado, March, 2007.

Host organizer and faculty of Twenty-first International Workshop on Twin Methodology, Boulder, Colorado, March, 2008.

Host organizer and faculty of Twenty-second International Workshop on Twin Methodology, Boulder, Colorado, March, 2009.

Host organizer and faculty of Twenty-third International Workshop on Statistical Genetics of Methodology of Twin and Family Studies: Introductory Course, Boulder, Colorado, March 2010

Host organizer and faculty of the 2011 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2011

Host organizer and faculty of the 2012 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2012

Host organizer and faculty of the 2013 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2013

Host organizer and faculty of the 2014 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2014

Host organizer and faculty of the 2015 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2015

Host organizer and faculty of the 2016 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2016

Host organizer and faculty of the 2017 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2017

Host organizer and faculty of the 2018 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2018

Host organizer and faculty of the 2019 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2019

Host organizer and faculty of the 2020 International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, March 2020

Co-Host organizer and faculty of the 2021 Virtual International Workshop on Statistical Genetic Methods for Human Complex Traits, Boulder, Colorado, June 2021

PROFESSIONAL DUTIES RELATED TO RESEARCH

CURRENT/ACTIVE

Editor-in-Chief: Behavior Genetics (July, 2001 – Dec, 2024).

FORMER/COMPLETED

Director of the Animal Psychology Laboratory, Department of Psychology, University Birmingham, 1980-83.

Invited member of NIMH advisory workshop on "Social regulation, basic behaviors, and developmental transition: A behavioral genetics perspective" (Sept., 1990).

Invited member of NIMH advisory workshop on Childhood and Adolescent Mental Health, Nov. 1990.

Invited member of NIAAA working group on "Longitudinal studies of children at high risk for alcohol problems" (May 1990).

I have regularly reviewed grant proposals for NIH and participate in site visits on an ad hoc basis.
Invited presenter: NIH workshop on "Research Priorities in Eating Disorders."

Regular committee member, Emotion and Personality IRG, NIMH, 1992-94.

Regular committee member, Epidemiology and Genetics IRG, NIMH, 1994-1997.

Chair, APA Working Group on Genetic Research (Nov., 2002-2011).

Invited member, National Epidemiological Study on Alcohol and Related Conditions (NESARC-III) Genetics Advisory Committee, 2012

Invited member, NIMH/DOD Workgroup, “Biomarkers and the High Risk Military Context: Integrating Findings Across Studies to Build Partnerships and Innovation.’’ 2011-2012

Invited member, NIDA Genetics Consortium, 2005-present

Invited member, NIAAA Workgroup on ``Challenges and opportunities in GxE research: Creating consensus recommendations for guidelines on GxE research.'' 2013.

External Evaluation Committee for the Virginia Institute of Psychiatric and Behavioral Genetics (2015)

External Advisory Committee for NHLBI-supported R25 short course --- `Strengthening Causal Inference in Behavioral Obesity Research' (2015 --- 2020)

NIMH training grant review committee 2013, 2015, 2016.

Ad hoc reviewer for NIH BGES review group 2016

Invited Member, NIAAA Director's Advisory Group on Genetics and Alcoholism, 2016.

Co-Chair ABCD study Genetics Workgroup 2018 --- 2022

Member, Scientific Advisory Board, National Consortium on Alcohol and Neurodevelopment in Adolescence (NCANDA), 2019 --- 2022

Member, Advisory Board, Summer Institutes in Statistical Genetics, University of Washington, 2019 -- 2022

Member, Advisory Board, T32 program in Transdisciplinary training in sleep and circadian rhythms, University of Colorado Boulder, 2019 --- 2022

Member, Advisory Board, R25 Short course on "Strengthening the Causal Inference in Behavioral Obesity Research", Indiana University School of Public Health, 2015 --- 2020

PUBLICATIONS

PEER REVIEWED JOURNAL PAPERS
(alphabetically within years of publication)

2025

Panchal Z, Sakai JT, Ellingson JM, Zellers S, Wright Jr KP, Mcgue MK, Vrieze S, **Hewitt JK**, Corley RP, Iacono W, et. al. "Association of Recreational Cannabis Legalization with Frequency of Using Cannabis for Sleep." JOURNAL OF PSYCHOACTIVE DRUGS (March 30, 2025). (Published online March 30, 2025)

Panchal Z, Sakai J, Goldstein-Piekarski AN, Ellingson JM, Iacono W, Corley RP, Vrieze S, Hopfer CJ, **Hewitt JK**, McGue MK, et. al. "Mental Health, Substance Use, and Related Factors Associated with Recent Use of Cannabis for Sleep: A Co-Twin Control Study." BEHAVIORAL SLEEP MEDICINE. 23 (5) (September 03, 2025): 648-660.

van der Laan CM, Ip HF, Schipper M, Hottenga J-J, St Pourcain B, Zayats T, Pool R, Krapohl EML, Brikell I, Soler Artigas M, […[**Hewitt J** […[Boomsma DI "Genome-wide association meta-analysis of childhood ADHD symptoms and diagnosis identi□es new loci and potential e□ector genes (Sept,

10.1038/s41588-025-02295-y, 2025)." NATURE GENETICS. 57 (10) (October 2025): 2604-2604.

In progress:

Ali F. Sloan,[1] Jordan D. Alexander,[2] Jarrod M. Ellingson,[3,4] Daniel E. Gustavson,[4,5] **John K. Hewitt**,[4,5] William G Iacono,[2] Matt McGue,[2] Soo Hyun Ree,[4,5] Chandra A. Reynolds,[4,5] Scott I. Vrieze, [2] Sylia Wilson,[6] Jonathan D. Schaefer[1] Nicotine use and Psychoticism: A Longitudinal Co-Twin Control Analysis submitted to *Journal of Psychopathology and Clinical Science*.

Baiyu Qi, MPH1, Heather M. Highland, PhD1, Mariaelisa Graff, PhD1, Cynthia M. Bulik, PhD2,3,4, Soo Rhee, PhD5,6, Michael C. Stallings, PhD5,6, **John K. Hewitt**, PhD5,6, Daniel E. Gustavson, PhD5,6, Chandra A. Reynolds, PhD5,6, Kari E. North, PhD1, Melissa A. Munn-Chernoff, PhD7 A genetically informed cross-lagged twin study of the longitudinal association between addiction-related behaviors and obesity Submitted to *Addiction*.

J. Megan Ross1*, Jarrod M. Ellingson1,2, Zoe Panchal1, Kristina T. Legget1, Naomi P. Friedman2,3, Randi M. Schuster4,5, Amber Duffy1, Aviva K. Olsavsky1, Susan K. Mikulich-Gilbertson1, Susan L. Calcaterra6, George Sam Wang7, **John K. Hewitt**2,3, & Christian J. Hopfer1,2 A preliminary exploration in the associations between cannabis use frequency and appetite, eating behavior, and anthropometrics. Submitted to *Drug and Alcohol Dependence*

2024

Matherne CE, Qi B, Rhee SH, Stallings MC, Corley RP, **Hewitt JK**, Munn-Chernoff MA. Shared Genetic Influences Between Loss-of-Control Eating and Body Mass Index in Adolescent Twins. Int J Eat Disord. 2024 Oct;57(10):2128-2134. doi: 10.1002/eat.24245. Epub 2024 Jun 28. PMID: 38940253; PMCID: PMC11524777.

Rieselbach MM, Gresko S, Corley RP, **Hewitt JK**, Rhee SH. An examination of the protective role of internalizing symptoms in adolescent substance use. J Psychopathol Behav Assess. 2024 Mar;46(1):12-24. doi: 10.1007/s10862-024-10119-2. Epub 2024 Feb 24. PMID: 39219837; PMCID: PMC11364360.

Zellers S, Alexander J, Ellingson JM, Schaefer JD, Corley RP, Iacono W, **Hewitt JK**, Hopfer CJ, McGue MK, Vrieze S. Limited psychological and social effects of lifetime cannabis use frequency: Evidence from a 30-year community study of 4,078 twins. J Psychopathol Clin Sci. 2024 Jan;133(1):115-128. doi: 10.1037/abn0000867. PMID: 38147055; PMCID: PMC10751959.

2023

Fan CC, Loughnan R, Wilson S, **Hewitt JK**; ABCD Genetic Working Group. Genotype Data and

Derived Genetic Instruments of Adolescent Brain Cognitive Development Study® for Better Understanding of Human Brain Development. Behav Genet. 2023 May;53(3):159-168. doi: 10.1007/s10519-023-10143-0. Epub 2023 Apr 24. PMID: 37093311; PMCID: PMC10635818.

Giannelis A, Willoughby EA, Corley R, Hopfer C, **Hewitt JK**, Iacono WG, Anderson J, Rustichini A, Vrieze SI, McGue M, Lee JJ. The association between saving disposition and financial distress: A genetically informed approach. J Econ Psychol. 2023 Jun;96:102610. doi: 10.1016/j.joep.2023.102610. Epub 2023 Feb 11. PMID: 37092036; PMCID: PMC10118204.

Gresko SA, Rieselbach M, Corley RP, Hopfer CJ, Stallings MC, **Hewitt JK**, Rhee SH. Subjective effects as predictors of substance use disorders in a clinical sample: A longitudinal study. Drug Alcohol Depend. 2023 Aug 1;249:110822. doi: 10.1016/j.drugalcdep.2023.110822. Epub 2023 Jun 9. PMID: 37331303.

Maes HHM, Lapato DM, Schmitt JE, Luciana M, Banich MT, Bjork JM, **Hewitt JK**, Madden PA, Heath AC, Barch DM, Thompson WK, Iacono WG, Neale MC. Genetic and Environmental Variation in Continuous Phenotypes in the ABCD Study®. Behav Genet. 2023 Feb;53(1):1-24. doi: 10.1007/s10519-022-10123-w. Epub 2022 Nov 10. PMID: 36357558; PMCID: PMC9823057**.**

Paulich KN, Freis SM, Dokuru DR, Alexander JD, Vrieze SI, Corley RP, McGue M, **Hewitt JK**, Stallings MC. Exploring Relationships Between Internalizing Problems and Risky Sexual Behavior: A Twin Study. Behav Genet. 2023 Jul;53(4):331-347. doi: 10.1007/s10519-023-10146-x. Epub 2023 May 11. PMID: 37165251.

Ross JM, Karoly HC, Zellers SM, Ellingson JM, Corley RP, Iacono WG, **Hewitt JK**, McGue M, Vrieze S, Hopfer CJ. Evaluating substance use outcomes of recreational cannabis legalization using a unique co-twin control design. Am J Drug Alcohol Abuse. 2023 Sep 3;49(5):630-639. doi: 10.1080/00952990.2022.2163177. Epub 2023 Jun 1. Update in: Am J Drug Alcohol Abuse. 2023 Sep 3;49(5):684. PMID: 37262386; PMCID: PMC10689567.

Ross JM, Karoly HC, Zellers SM, Ellingson JM, Corley RP, Iacono WG, **Hewitt JK**, McGue M, Vrieze S, Hopfer CJ. Addendum to "Evaluating substance use outcomes of recreational cannabis legalization using a unique co-twin control design". Am J Drug Alcohol Abuse. 2023 Sep 3;49(5):684. doi: 10.1080/00952990.2023.2252573. Epub 2023 Nov 28. PMID: 38014892.

Zellers SM, Ross JM, Saunders GRB, Ellingson JM, Walvig T, Anderson JE, Corley RP, Iacono W, **Hewitt JK**, Hopfer CJ, McGue MK, Vrieze S. Recreational cannabis legalization has had limited effects on a wide range of adult psychiatric and psychosocial outcomes. Psychol Med. 2023 Jan 5:1-10. doi: 10.1017/S0033291722003762. Epub ahead of print. PMID: 36601811.

Zellers SM, Ross JM, Saunders GRB, Ellingson JM, Anderson JE, Corley RP, Iacono W, **Hewitt JK**, Hopfer CJ, McGue MK, Vrieze S. Impacts of recreational cannabis legalization on cannabis use: a longitudinal discordant twin study. Addiction. 2023 Jan;118(1):110-118. doi: 10.1111/add.16016. Epub 2022 Aug 24. PMID: 36002928.

2022

Freis SM, Morrison CL, Lessem JM, **Hewitt JK**, Friedman NP. (2022) Genetic and environmental influences on executive functions and intelligence in middle childhood. Dev Sci. 2022 Jan;25(1):e13150. doi: 10.1111/desc.13150. Epub 2021 Jul 29. PMID: 34288270; PMCID: PMC8639807.

Freis SM, Morrison CL, Smolker HR, Banich MT, Kaiser RH, **Hewitt JK**, Friedman NP.(2022) Executive Functions and Impulsivity as Transdiagnostic Correlates of Psychopathology in Childhood: A Behavioral Genetic Analysis. Front Hum Neurosci. 2022 Mar 25;16:863235. doi: 10.3389/fnhum.2022.863235. eCollection 2022.
PMID: 35431847

Gustavson DE, Reynolds CA, Corley RP, Wadsworth SJ, **Hewitt JK**, Friedman NP. (2022) Genetic associations between executive functions and intelligence: A combined twin and adoption study. J Exp Psychol Gen. 2022 Jan 6. doi: 10.1037/xge0001168. Epub ahead of print. PMID: 34990157.

Howe LJ, Nivard MG, Morris TT, Hansen AF, […] **Hewitt JK**, Keller MC, Stallings MC, […] Davies NM. (2022) Within-sibship genome-wide association analyses decrease bias in estimates of direct genetic effects. Nat Genet. 2022 May;54(5):581-592. doi: 10.1038/s41588-022-01062-7. Epub 2022 May 9. PMID: 35534559

Jami ES, Hammerschlag AR, Ip HF […] **Hewitt JK**, […] Middeldorp CM. (2022) Genome-wide Association Meta-analysis of Childhood and Adolescent Internalizing Symptoms. J Am Acad Child Adolesc Psychiatry. 2022 Apr 1:S0890-8567(22)00179-4. doi: 10.1016/j.jaac.2021.11.035. Online ahead of print. PMID: 35378236

Neumann A, […], **Hewitt JK**, […], Henning Tiemeier A genome-wide association study of total child psychiatric problems scores PLOS ONE, in press.

Rieselbach MM, Corley RP, **Hewitt JK**, Rhee SH. (2022) Anxiety-specific associations with substance use: Evidence of a protective factor in adolescence and a risk factor in adulthood. Dev Psychopathol. 2022 May 2:1-13. doi: 10.1017/S0954579422000232. Online ahead of print. PMID: 35491700

Ross JM, Ellingson JM, Frieser MJ, Corley RC, Hopfer CJ, Stallings MC, Wadsworth SJ, Reynolds CA, **Hewitt JK**.(2022) The effects of cannabis use on physical health: A co-twin control study. Drug Alcohol Depend. 2022 Jan 1;230:109200. doi: 10.1016/j.drugalcdep.2021.109200. Epub 2021 Nov 27. PMID: 34871975; PMCID: PMC8714702.

Saunders GRB, Wang X, […] , **Hewitt JK**, […] Liu DJ, Vrieze S. Genetic diversity fuels gene discovery for tobacco and alcohol use. Nature. 2022 Dec;612(7941):720-724. doi: 10.1038/s41586-022-05477-4. Epub 2022 Dec 7. PMID: 36477530; PMCID: PMC9771818.

Smolker HR, Wang K, Luciana M, Bjork JM, Gonzalez R, Barch DM, McGlade EC, Kaiser RH, Friedman NP, **Hewitt JK**, Banich MT. (2022) The Emotional Word-Emotional Face Stroop task in the ABCD study: Psychometric validation and associations with measures of cognition and psychopathology. Dev Cogn Neurosci. 2022 Feb;53:101054. doi: 10.1016/j.dcn.2021.101054. Epub 2021 Dec 21. PMID: 34954668; PMCID: PMC8717459.

2021

Chaarani B […] **Hewitt JK**, […] Garavan HP; ABCD Consortium. Baseline brain function in the preadolescents of the ABCD Study. Nat Neurosci. 2021 Aug;24(8):1176-1186. doi: 10.1038/s41593-021-00867-9. Epub 2021 Jun 7. PMID: 34099922.

Ellingson JM, Ross JM, Winiger E, Stallings MC, Corley RP, Friedman NP, **Hewitt JK**, Tapert SF,

Brown SA, Wall TL, Hopfer CJ. Familial factors may not explain the effect of moderate-to-heavy cannabis use on cognitive functioning in adolescents: a sibling-comparison study. Addiction. 2021 Apr;116(4):833-844. doi: 10.1111/add.15207. Epub 2020 Sep 3. PMID: 32881239; PMCID: PMC7925696.

Gustavson DE, Friedman NP, Stallings MC, Reynolds CA, Coon H, Corley RP, **Hewitt JK**, Gordon RL. Musical instrument engagement in adolescence predicts verbal ability 4 years later: A twin and adoption study. Dev Psychol. 2021 Nov;57(11):1943-1957. doi: 10.1037/dev0001245. PMID: 34914455.

Herting MM, […] **Hewitt JK**, […] , Sowell ER. Correspondence Between Perceived Pubertal Development and Hormone Levels in 9-10 Year-Olds From the Adolescent Brain Cognitive Development Study. Front Endocrinol (Lausanne). 2021 Feb 18;11:549928. doi: 10.3389/fendo.2020.549928. PMID: 33679599; PMCID: PMC7930488.

Huggett SB, Winiger EA, Palmer RHC, **Hewitt JK**, Corley RP, Stallings MC. The structure and subtypes of gambling activities: Genetic, psychiatric and behavioral etiologies of gambling frequency. Addict Behav. 2021 Feb;113:106662. doi: 10.1016/j.addbeh.2020.106662. Epub 2020 Sep 16. PMID: 33011493.

Huibregtse BM, Hatoum AS, Corley RP, Rhea SA, **Hewitt JK**, Stallings MC. Etiological Overlap Between Sex Under the Influence and Number of Lifetime Sexual Partners. Behav Genet. 2021 Jan;51(1):12-29. doi: 10.1007/s10519-020-10019-7. Epub 2020 Oct 28. PMID: 33118127.

Lisdahl KM, […] **Hewitt JK**, […] Heitzeg MM; ABCD Consortium. Substance use patterns in 9-10 year olds: Baseline findings from the adolescent brain cognitive development (ABCD) study. Drug Alcohol Depend. 2021 Jul 29;227:108946. doi: 10.1016/j.drugalcdep.2021.108946. Epub ahead of print. PMID: 34392051.

Morrison CL, Rhee SH, Smolker HR, Corley RP, **Hewitt JK,** Friedman NP. Genetic and Environmental Influences on Stressful Life Events and their Associations with Executive Functions in Young Adulthood: A Longitudinal Twin Analysis. Behav Genet. 2021 Jan;51(1):30-44. doi: 10.1007/s10519-020-10017-9. Epub 2020 Sep 21. PMID: 32959091; PMCID: PMC7855628

Munn-Chernoff MA, […] **Hewitt JK**, […] Bulik CM, Agrawal A. Shared genetic risk between eating disorder- and substance-use-related phenotypes: Evidence from genome-wide association studies. Addict Biol. 2021 Jan;26(1):e12880. doi: 10.1111/adb.12880. Epub 2020 Feb 16. PMID: 32064741; PMCID: PMC7429266.

Paulich KN, Ross JM, Lessem JM, **Hewitt JK**. Screen time and early adolescent mental health, academic, and social outcomes in 9- and 10- year old children: Utilizing the Adolescent Brain Cognitive Development ℠ (ABCD) Study. PLoS One. 2021 Sep 8;16(9):e0256591. doi: 10.1371/journal.pone.0256591. PMID: 34496002; PMCID: PMC8425530.

Rhee SH, Woodward K, Corley RP, du Pont A, Friedman NP, **Hewitt JK**, Hink LK, Robinson J, Zahn-Waxler C. The association between toddlerhood empathy deficits and antisocial personality disorder symptoms and psychopathy in adulthood. Dev Psychopathol. 2021 Feb;33(1):173-183. doi: 10.1017/S0954579419001676. PMID: 32115005; PMCID: PMC7483195.

Ross JM, Rieselbach MM, **Hewitt JK**, Banich MT, Rhee SH. Children's Knowledge of Cannabis and Other Substances in States with Different Cannabis Use Regulations. Subst Use Misuse. 2021 Sep

5:1-8. doi: 10.1080/10826084.2021.1972316. Epub ahead of print. PMID: 34486481.

Smolker HR, Wang K, Luciana M, Bjork JM, Gonzalez R, Barch DM, McGlade EC, Kaiser RH, Friedman NP, **Hewitt JK**, Banich MT. The Emotional Word-Emotional Face Stroop task in the ABCD study: Psychometric validation and associations with measures of cognition and psychopathology. Dev Cogn Neurosci. 2021 Dec 21;53:101054. doi: 10.1016/j.dcn.2021.101054. Epub ahead of print. PMID: 34954668; PMCID: PMC8717459.

Winiger EA, Ellingson JM, Morrison CL, Corley RP, Pasman JA, Wall TL, Hopfer CJ, **Hewitt JK**. Sleep deficits and cannabis use behaviors: an analysis of shared genetics using linkage disequilibrium score regression and polygenic risk prediction. Sleep. 2021 Mar 12;44(3):zsaa188. doi: 10.1093/sleep/zsaa188. PMID: 32935850; PMCID: PMC7953210.

2020

du Pont, A., Karbin, Z., Rhee, S. H., Corley, R. P., **Hewitt, J. K**., & Friedman, N. P. (2020). Differential associations between rumination and intelligence subtypes. Intelligence, 78, 101420. https://doi.org/10.1016/j.intell.2019.101420

Evans LM, Johnson EC, Melroy-Grief WE, **Hewitt JK,** Hoeffer CA, Keller MC, Saba LM, Stitzel JA, Ehringer MA. (2020) The role of a priori-identified addiction and smoking gene sets in smoking behaviors. Nicotine Tob Res. 2020 Jan 13. pii:
ntaa006. doi: 10.1093/ntr/ntaa006. [Epub ahead of print] PubMed PMID: 31930296.

Hewitt J. K. (2020). Twin studies of brain, cognition, and behavior. Neuroscience and biobehavioral reviews, 115, 1–4. https://doi.org/10.1016/j.neubiorev.2020.05.003

Hewitt J. K. (2020). Nick Martin and the 'Boulder Workshops'. Twin research and human genetics. 23(2), 80–81. https://doi.org/10.1017/thg.2020.32

Jiang, Y., Chen, S., Wang, X., Liu, M., Iacono, W. G., **Hewitt, J. K**., Hokanson, J. E., Krauter, K., Laakso, M., Li, K. W., Lutz, S. M., McGue, M., Pandit, A., Zajac, G., Boehnke, M., Abecasis, G. R., Vrieze, S. I., Jiang, B., Zhan, X., & Liu, D. J. (2020). Association Analysis and Meta-Analysis of Multi-Allelic Variants for Large-Scale Sequence Data. Genes, 11(5), 586.
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Johnson EC, Demontis D, Thorgeirsson TE, […] **Hewitt JK**, […] Agrawal A. (2020) A large-scale genome-wide association study meta-analysis of cannabis use disorder. Lancet Psychiatry. 2020 Dec;7(12):1032-1045. doi: 10.1016/S2215-0366(20)30339-4. Epub 2020 Oct 20. PMID: 33096046; PMCID: PMC7674631.

Polimanti R, Walters RK, Johnson EC, McClintick JN, Adkins AE, Adkins DE, Bacanu SA, Bierut LJ, Bigdeli TB, Brown S, Bucholz KK, Copeland WE, Costello EJ, Degenhardt L, Farrer LA, Foroud TM, Fox L, Goate AM, Grucza R, Hack LM, Hancock DB, Hartz SM, Heath AC, **Hewitt JK**, Hopfer CJ, Johnson EO, Kendler KS, Kranzler HR, Krauter K, Lai D, Madden PAF, Martin NG, Maes HH, Nelson EC, Peterson RE, Porjesz B, Riley BP, Saccone N, Stallings M, Wall TL, Webb BT, Wetherill L; Psychiatric Genomics Consortium Substance Use Disorders Workgroup, Edenberg HJ, Agrawal A, Gelernter J. (2020) Leveraging genome-wide data to investigate differences between opioid use vs. opioid dependence in 41,176 individuals from the Psychiatric Genomics Consortium. Mol Psychiatry. 2020 Feb 26. doi: 10.1038/s41380-020-0677-9. PubMed PMID: 32099098.

Reineberg, A. E., Hatoum, A. S., **Hewitt, J. K.,** Banich, M. T., & Friedman, N. P. (2020). Genetic and Environmental Influence on the Human Functional Connectome. Cerebral cortex (New York, N.Y. : 1991), 30(4), 2099–2113. https://doi.org/10.1093/cercor/bhz225

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Winiger, E. A., Huggett, S. B., Hatoum, A. S., Friedman, N. P., Drake, C. L., Wright, K. P., & **Hewitt, J. K.** (2020). Onset of regular cannabis use and young adult insomnia: an analysis of shared genetic liability. Sleep, 43(5), zsz293. https://doi.org/10.1093/sleep/zsz293

Winiger, E. A., **& Hewitt, J. K**. (2020). Prenatal cannabis exposure and sleep outcomes in children 9-10 years of age in the adolescent brain cognitive development SM study. Sleep health, S2352-7218(20)30135-2. Advance online publication. https://doi.org/10.1016/j.sleh.2020.05.006

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2019

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Hewitt, **J.K.**, & Last, K. (1984). Twin studies of intelligence: Recent data, new questions. In C. Turner and M.B. Miles (Eds.), *The biology of human intelligence*. Nafferton: Nafferton Press, 1984.

1983

Hewitt, **J.K.**, & Broadhurst, P.L. (1983). Genetic architecture and the evolution of aggressive behavior.
In E.C. Simmel, M.E. Hahn & **J.K.** Walters (Eds.), *Aggressive behavior: Genetic and neural aspects*. London: Lawrence Erlbaum.

OTHER - REVIEWS, EDITORIALS, ETC.

2024

Hewitt JK. Two Decades of Accomplishment and Progress in Behavior Genetics. Behav Genet. 2024 Nov;54(6):441-442. doi: 10.1007/s10519-024-10200-2. PMID: 39382771.

2023

Wilson, S., Fan, C.C. & **Hewitt, JK**. ABCD Behavior Genetics: Twin, Family, and Genomic Studies Using the Adolescent Brain Cognitive Development (ABCD) Study Dataset. Behav Genet 53, 155–158 (2023). https://doi.org/10.1007/s10519-023-10144-z

2020 and earlier

Hewitt JK (2020) Celebrating the 50th anniversary of the journal, Behavior Genetics. *Behavior Genetics*, 50:1-2.

Hewitt, **J.K.** (2012). Editorial Policy on Candidate Gene Association and Candidate Gene-by-Environment
Interaction Studies of Complex Traits. *Behavior Genetics*, 42:1-2.

Hewitt, **J.K.**, Hahn, M.E, **Hewitt**, C.A, Review of *Handbook of Behavior Genetics* edited by Yong-Kyu Kim, *Behavior Genetics*, 2010, 572-573.

Hewitt, **J.K.** Review of *Statistical Genetics: Gene mapping through linkage and association* edited by Neale, B.M., Ferriera, M.A,R,, Medland, S.E., and Posthuma, D. *Behavior Genetics,* 2008, 337-338.

Berrettini, W., Bierut, L., Crowley, T.J., Cubells, J.F., Frascella, J., Gelernter, J., **Hewitt**, **J.K.**, Kreek, M.J., Lachman, H., Leppert, M., Li, M.D., Madden, P., Miner, C., Pollock, J.D., Pomerleau, O., Rice, J.P., Rutter, J.L., Shurtleff, D., Swan, G.E., Tischfield, J.A., Tsuang, M., Uhl, G.R., Vanyukov, M., Volkow, N.D., & Wanke, K. (2004). Setting priorities for genomic research. *Science*, 304(4), 1445-7.

Goldsmith, H., Crabbe, J., Dawson, G., Gottesman, I.I., **Hewitt**, J., McGue, M., Pedersen, N., Plomin, R., Rose, R., Swanson, J. Research psychologists' roles in the genetic revolution. *American Psychologist,* 2003, *58,* 318-319.

Hewitt, **J.K.** Behavior Genetics: From genome to behavior. *Behavior Genetics*, 2001, *31*, 401. [Editorial]

Stallings, M.C., & **Hewitt**, **J.K.** Review of *Conceptualization and measurement of organism-environment interaction. Behavior Genetics*, 1994, *24*, 103-104.

Hewitt, **J.K.** There is indeed no substitute for multivariate genetic and environmental analyses. *Behavioral and Brain Sciences*, 1991, 14:3, 397 [An open peer commentary]

Hewitt, **J.K.** The 1991 BGA meeting in St. Louis, Missouri, *Behavior Genetics*, 1991, *21*, 597-599.

Hewitt, **J.K.** The 1990 BGA meeting in Aussois, France, *Behavior Genetics*, 1990, *20*, 757-759.

Hewitt, **J.K.** The 1989 BGA meeting in Charlottesville, *Behavior Genetics*, 1989, *19*, 784-786.

Hewitt, **J.K.** Review of *Perspectives in Behavior Genetics* by J.L. Fuller and E.C. Simmel. *Animal Behavior*,, 1987.

Hewitt, **J.K.** Review of *Psychometrics and psychology* by P. Kline. *Journal of Literary Semantics,* 1981, *10*, 58-59.

CONFERENCE PRESENTATIONS

I have read papers or co-authored presentations at the following conferences or institutions:

Association for the Study of Animal Behavior, Sheffield, England, 1978.
Population Genetics Group. Sheffield, England, 1978.
Behavior Genetics Association, Connecticut, U.S.A., 1979.
Behavior Genetics Association, New York, U.S.A., 1981.
Miami Symposium on Social Behavior, Ohio, U.S.A., 1981.
Dept. of Biology, University of Chicago, Illinois, U.S.A., 1981.
Dept. of Psychology, Purdue University, U.S.A., 1981.
Institute for Behavioral Genetics, Colorado, U.S.A., 1981.
Behavior Genetics Association, London, England, 1983.
Dept. of Psychology, Ulster Polytechnic. Belfast, N. Ireland, 1983.
Dept. of Genetics, Trinity College, Dublin, Ireland, 1983.
British Psychological Society, London, 1983.
Behavior Genetics Association. Bloomington, Indiana, U.S.A., 1984.
Department of Psychology, University of Colorado, Boulder, Colorado, U.S.A., 1985.
Department of Psychology, University of Minnesota, Minneapolis, Minnesota, U.S.A., 1985.
Department of Human Genetics, Medical College of Virginia, 1986.
Department of Biology, Wesleyan University, Connecticut, U.S.A., 1986.
Behavior Genetics Association, Honolulu, Hawaii, U.S.A., 1986.
Department of Pediatric Cardiology, Medical College of Virginia, 1986.
3rd William Paterson College Symposium on Social Behavior, NJ, 1986.
Department of Psychology, University of Colorado, 1987.
2nd International Conference on Quantitative Genetics, Raleigh, NC, 1987.
Department of Human Genetics, Medical College of Virginia, 1988.
Behavior Genetics Association, Nijmegen, Netherlands, 1988.
Society for Psychophysiological Research, San Francisco, 1988
NIMH conference on genetic approaches to understanding health damaging behaviors.Philadelphia, 1988
Western Psychiatric Institute and Clinic, Pittsburgh, 1988.
McArthur Foundation conference on Health and Stress, Philadelphia, 1988.
Behavior Genetics Association, Charlottesville, VA, 1989.
6th International Congress on Twin Studies, Rome, Italy, 1989.
Society for Behavioral Medicine, Chicago, Illinois, 1990.
Behavior Genetics Association, Aussois, France, 1990.
Institute for Behavioral Genetics, Colorado, USA, 1990.
Institute for Social Research, University of Michigan, Ann Arbor, USA. 1990.
Dept. of Biostatistics, Medical College of Virginia, 1991.
Dept. of Human Genetics, Medical College of Virginia, 1991.
Behavior Genetics Association, St. Louis, Missouri, 1991.

Department of Psychology, University of Colorado at Boulder, 1992.
Department of Human Genetics, Medical College of Virginia, 1992.
Quantitative Group, Department of Human Genetics, Medical College of Virginia, 1992.
Behavior Genetics Association, Boulder, CO, 1992
American Psychological Association, Washington, DC, 1992.
Behavior Genetics Association, Sydney, Australia, 1993.
World Congress on Psychiatric Genetics, New Orleans, 1993.
Behavior Genetics Association, Barcelona, 1994.
International Congress on Twin Studies, Richmond, VA, 1995.
Behavior Genetics Association, Richmond, VA, 1995.
FASEB conference: Genetic and behavioral influences on nutrient metabolism and obesity; Copper Mountain, CO, 1995.
Research Priorities in Eating Disorders, NIH workshop, New York, 1996.
Behavior Genetics Association, Pittsburgh, PA, 1996.
Behavior Genetics Association, Toronto, Canada, 1997.
Behavior Genetics Association, Stockholm, Sweden, 1998.
International Society for Twin Studies, Helsinki, 1998.
Behavior Genetics Association, Vancouver, Canada, 1999.
NIH Statistical Genetics Initiative Workshop, Half Moon Bay, 1999.
Behavior Genetics Association, Burlington, VT, 2000.
Developmental Psychobiology Research Group, Denver, CO, 2001.
FCDEF, University of Porto, Portugal, 2001.
Lyon-Voorhees Lecture, UCHSC, 2001.
Invited plenary lecture, College on Problems of Drug Dependence, Scottsdale, AZ, 2001.
Presidential Address, Behavior Genetics Association, Cambridge, UK, 2001.
Behavioral and Social Sciences Seminar Series, NIH, 2002.
Behavior Genetics Association, Chicago, 2003.
World Congress on Psychiatric Genetics, Quebec City, 2003.
American Society of Criminology, Denver, 2003.
Behavior Genetics Association, Aix-en-Provence, 2004
Behavior Genetics Association, Los Angeles, 2005
Behavior Genetics Association, Storrs Connecticut, 2006
Research Society on Alcoholism, Baltimore, 2006
Secretary of Health and Human Services Advisory Committee on Genetics, Health, and Society, Baltimore, MD, 2006
Institute for Behavioral Sciences, University of Colorado, Boulder, Colorado, 2007
Neuropsychology Research Group, University of Denver, Denver, Colorado, 2007 Developmental
Psychobiology Research Group, University of Denver and Health Sciences Center, Denver, Colorado, 2007
Behavior Genetics Association, Amsterdam, 2007
Behavior Genetics Association, Louisville, Kentucky, 2008.
Add Health Users Conference, Bethesda, Maryland, 2008.
Eating Disorders Workshop, Valencia, Spain, 2008
Public Health Research Center, University of Hong Kong, August, 2009.
Behavior Genetics Association, Seoul, South Korea, 2010.
Behavior Genetics Association, Newport, RI, 2011
Behavior Genetics Association, Edinburgh, UK, 2012
3rd Annual Research Ethics Conference, Anschutz Medical Campus, Denver, October, 2012
NIAAA workgroup on Challenges and opportunities in GxE research, Rockville, MD, January, 2013.
Behavior Genetics Association, Marseille, France, 2013.
15th Annual Genetics and Ethics Conference, Estes Park, 2013.

Behavior Genetics Association, Charlottesville, VA, 2014.
Behavior Genetics Association, San Diego, CA, 2015.
Behavior Genetics Association, Brisbane, Australia, 2016 (co-author, but could not attend in person due to family emergency.)
Behavior Genetics Association, Oslo, Norway, June 2017
Population Association of America, Denver. April 2018. Satellite meeting of the Interdisciplinary Association for Population Health Science (IAPHS) , `Assessing the marriage of demography, genetics, and public health: a behavior genetics perspective'.
Behavior Genetics Association, Boston, MA. June 2018.
Behavior Genetics Association, Stockholm, Sweden, June/July 2019
Behavior Genetics Association, virtual meeting, June 2020
Behavior Genetics Association, virtual meeting, June 2021
Behavior Genetics Association, Los Angeles, June 2022
Behavior Genetics Association, Murcia, Spain, June 2023