

Wesley Kurt Thompson, Ph.D.

Office Address:

Laureate Institute for Brain Research
6655 South Yale Avenue
Tulsa, OK 74136
USA

Home Address:

130 W. Le Roy Avenue
Arcadia, CA 91007
USA

Telephone: 626-774-1134

Email: WThompson@laureateinstitute.org

Birth Date: October 13, 1968

Birth Place: USA

Citizenship: USA

APPOINTMENTS

Academic Positions

May 2022-present	Principal Investigator Laureate Institute for Brain Research Tulsa, OK USA
July 2019 – May 2022	Professor in Residence University of California, San Diego La Jolla, CA, USA
August 2014 – June 2019	Associate Professor in Residence University of California, San Diego La Jolla, CA, USA
Oct 2008 - July 2014	Assistant Professor in Residence University of California, San Diego La Jolla, CA, USA
Jan 2004 - Sept 2008	Assistant Professor Departments of Statistics and Psychiatry University of Pittsburgh Pittsburgh, PA, USA

Adjunct and Visiting Positions

May 2022 - current	Adjunct Professor Radiology University of California San Diego La Jolla, CA, USA
Aug 2013 – Jan 2021	Visiting Professor Institute of Clinical Medicine, University of Oslo Oslo, Norway
Oct 2011 - current	Adjunct Professor Program in Computational Statistics San Diego State University San Diego, CA, USA

June 2015 – July 2017 Lead Scientist
Institute of Biological Psychiatry
Sankt Hans Psychiatric Hospital
Roskilde, Denmark

Oct 2008 – Jan 2015 Adjunct Assistant Professor
Departments of Biostatistics and Psychiatry
University of Pittsburgh
Pittsburgh, PA, USA

Non-Academic Positions

Jan 2014 - current Wesley Thompson, Statistical Consulting, LLC
Owner and Chief Statistician

Jan 1997 - Sept 1997 Property and Casualty Actuary
Generali U.S. Branch
New York, NY, USA

Sept 1996 - Jan 1997 Property and Casualty Actuary
Zurich-American Specialties
New York, NY, USA

RESEARCH INTERESTS

- Longitudinal Data Analysis
- Hierarchical Bayesian Models
- Psychiatry, Neurocognition, and Neurodevelopment
- Human Genetics

HONORS AND ACHIEVEMENTS

2021 UCSD Faculty Leadership Academy Scholar
2020-present Co-Director, Population Neuroscience and Genetics Lab, UCSD
2020 Chair, Mental Health Statistics Section, American Statistical Association
2017-present Founding Faculty, Halicioğlu Data Science Institute, University of California, San Diego
2017-present Director of Statistics, National Consortium on Alcohol and Neurodevelopment in Adolescence
2015-present Director of Biostatistics, Adolescent Brain and Cognitive Development Study
2015-2018 Council of Section Representative, Mental Health Statistics Section, American Statistical Association
2011-12 Fellow, Advanced Research Institute in Geriatric Psychiatry
2011-12 Scholar, National Council for Leadership in Academic Medicine
2006-11 NIMH Career Development Award
1998-99 Excellent Fellow in the Graduate School of Arts and Sciences, Rutgers, the State University of New Jersey
1987 National Merit Scholar

EDUCATION

1997 - 2003	Ph.D. Statistics Rutgers, the State University of New Jersey Piscataway, NJ, USA
1994 – 1996	M.A. Mathematics State University of New York, Albany Albany, NY, USA
1987 - 1991	B.S. Mathematics University of Chicago Chicago, IL, USA

MEMBERSHIPS

2013 - current	Society of Biological Psychiatry
2012 - current	International Society of Psychiatric Genetics
1998 - current	American Statistical Association

BOOKS

Ombao H, Lindquist M, **Thompson WK**, Aston J, editors (2016). *Handbook of Neuroimaging Data Analysis*. CRC Press.

EDITORIALS

Paulus MP and **Thompson WK** (2019). The Challenges and Opportunities of Small Effects: The New Normal in Academic Psychiatry. *JAMA Psychiatry*

PEER-REVIEWED PUBLICATIONS

NCBI Bibliography:

<https://www.ncbi.nlm.nih.gov/sites/myncbi/wesley.thompson.1/bibliography/41165362/public/?sort=date&direction=descending>

Google Scholar:

<https://scholar.google.dk/citations?hl=da&user=jsBDssUAAAAJ>

Human Brain Imaging and Neurodevelopment

(83) Hernandez LM, Kim M, Hernandez C, **Thompson WK**, Fan CC, Galvan A, Dapretto M, Bookheimer SY, Fuligni A, Gandal M (2022). Decoupling sleep and brain size in childhood: An investigation of genetic covariation in the ABCD study. *Biological Psychiatry: Global Open Science*.

(82) Palmer CE, Pecheva D, Iversen JR, Hagler DJ, Sugrue L, Nedelec P, Fan CC, **Thompson WK**, Jernigan TL, Dale AM (2021). Microstructural development from 9-14 years: evidence from the ABCD Study. *Developmental Cognitive Neuroscience*.

- (81) Owens MM, Potter A, Hyatt C, Albaugh M, **Thompson WK**, Jernigan T, Yuan D, Hahn S, Allgaier N, Garavan H (2021). Recalibrating expectations about effect size: A multi-method survey of effect sizes in the ABCD study. *PLOS One*.
- (80) Dick AS, Silva K, Gonzalez R, Sutherland MT, Laird AR, **Thompson WK**, Tapert SF, Squeglia LM, Gray KM, Nixon SJ, Cottler LB, La Greca AM, Gurwitch RH, Comer JS (2021). Neural vulnerability and hurricane-related media are associated with posttraumatic stress in youth. *Nature Human Behaviour*.
- (79) Infante A, Zhang Y, Brumback T, Brown S, Colrain I, Baker F, Clark D, Goldston D, Nagel B, Nooner K, Zhao Q, Pohl K, Sullivan E, Pfefferbaum A, Tapert Susan, **Thompson WK** (2021). Adolescent Binge Drinking is Associated with Accelerated Decline of Gray Matter Volume. *Cerebral Cortex*.
- (78) Brumback T, Cummins K, Tapert S, **Thompson WK**, Brown S (2021). Psychosocial Predictors of Substance Use in Adolescents and Young Adults: Longitudinal Risk and Protective Factors. *Addictive Behaviors*.
- (77) Chaarani B, ..., **Thompson WK**, ..., Garavan H (2021). Baseline Brain Function in the Pre-Adolescents of the ABCD Study. *Nature Neuroscience*.
- (76) Li Y, **Thompson WK**, Reuter C, Nillo R, Jernigan T, Dale AM, Sugrue L (2021). Rates of Incidental Findings in Brain Magnetic Resonance Imaging in Children. *JAMA Neurology*.
- (75) Palmer CE, Zhao W, Loughnan R, Zou J, Fan CC, **Thompson WK**, Dale AM, Jernigan TJ (2021). Distinct regionalization patterns of cortical morphology are associated with cognitive performance across different domains. *Cerebral Cortex*.
- (74) Simmons C, Conly MI, Gee DG, Baskin-Sommers A, Barch DM, Hoffman EA, Huber RS, Iacono WG, Nagel BJ, Palmer CE, Sheth CS, Sowell ER, **Thompson WK**, Casey BJ (2021). Responsible use of open access developmental data: The Adolescent Brain Cognitive DevelopmentSM (ABCD) Study. *Psychological Science*.
- (73) Lopez DA, Mao Y, **Thompson WK**, Foxe JJ, Freedman EG (2021). Breastfeeding Duration is Associated With Domain-Specific Improvements in Cognitive Performance in 9-10-Year-Old Children. *Frontiers in Psychology*.
- (72) Hahn S, Yuan D-K, **Thompson WK**, Allgaier N, Garavan H (2021). ABCD ML: a Python library for neuroimaging based machine learning. *Bioinformatics*.
- (71) Zhao W, Palmer CE, **Thompson WK**, Chaarani B, Garavan HP, Casey BJ, Jernigan TL, Dale AM, Fan CCC (2021). Individual differences in cognitive performance are better predicted by global rather than localized BOLD activity patterns across the cortex. *Cerebral Cortex*.
- (70) van der Meer D, Frei O, Kaufmann T, Shadrin AA, Devor A, Smeland OB, **Thompson WK**, Fan CC, Holland D, Westlye LT, Andreassen OA, Dale AM (2020). Understanding the genetic determinants of the brain with MOSTest. *Nature Communications*.
- (69) van der Meer D, Frei O, Kaufmann T, Chen CH, **Thompson WK**, O'Connell KS, ..., Andreassen OA (2020). Quantifying the polygenic architecture of the human cerebral cortex: Extensive genetic overlap between cortical thickness and surface area. *Cerebral Cortex*, 30(10), 5597-5603.

(68) Donohue MC, Sethuraman G, Langford O, Lin W, Insel P, **Thompson WK**, ... & Aisen PS. (2020). Alternatives to MMRM for preclinical Alzheimer's clinical trials: Clinical trial design and implementation. *Alzheimer's & Dementia*, 16, e044915.

(67) Nooner KB, De Bellis MD, Clark DB, **Thompson WK**, Brumback T (2020). Longitudinal Impact of Life Events on Adolescent Binge Drinking in the National Consortium on Alcohol and Neurodevelopment in Adolescence (NCANDA). *Substance Use & Misuse*, 55(11), 1846-1855.

(66) Zhao Q, Sullivan EV, Honnorat N, Adeli E, Podhajsky S, De Bellis MD, Voyvodic J, Nooner KB, Baker FC, Colrain IM, Tapert SF, Brown SA, **Thompson WK**, Nagel BJ, Clark DB, Pfefferbaum A, Pohl KM (2020). Association of Heavy Drinking With Deviant Fiber Tract Development in Frontal Brain Systems in Adolescents. *JAMA Psychiatry*.

(65) Gonzalez MR, Palmer CE, Uban KA, Jernigan TL, **Thompson WK**, Sowell ER (2020). Positive economic, social, and physiological ecologies predict brain structure and cognitive performance in 9- 10-year-old children. *Frontiers in Human Neuroscience*.

(64) Rapuano KM, Laurent JS, Hagler DJ, Hatton SN, **Thompson WK**, Jernigan TL, Dale AM, Casey BJ, Watts R (2020). Nucleus Accumbens Cytoarchitecture Predicts Weight Gain in Children. *Proceedings of the National Academy of Science*.

(63) Madsen KS, Johansen LB, **Thompson WK**, Siebner HR, Jernigan T, Baaré WFC (2020). Maturational trajectories of white matter microstructure underlying the right presupplementary motor area reflect individual improvements in motor response cancellation in children and adolescents. *NeuroImage*.

(62) Insel PS, Mormino EC, Aisen PS, **Thompson WK**, Donohue MC (2020). Neuroanatomical spread of amyloid β and tau in Alzheimer's disease: Implications for primary prevention. *Brain Communications*.

(61) Hagler D, et al. (2019). Image processing and analysis methods for the Adolescent Brain Cognitive Development Study. *NeuroImage*.

(60) Dick AS, Garcia NL, Pruden SM, **Thompson WK**, Hawes SW, Sutherland M, Riedel M, Laird A, Gonzalez R (2019). No bilingual advantage for executive function: Evidence from a large sample of children in the Adolescent Brain and Cognitive Development (ABCD) study. *Nature Human Behaviour*.

(59) **Thompson WK**, Barch D, Bjork J, Gonzalez R, Nagel B, Nixon SJ, Luciana M (2019). The Structure of Cognition in 9 and 10 year-old Children and Associations with Problem Behaviors: Findings from the ABCD Study's Baseline Neurocognitive Battery. *DCN*.

(58) Le TT, Kuplicki RT, McKinney BA, Yeh HW, **Thompson WK**, Paulus MP (2018). A nonlinear simulation framework supports adjusting for age when analyzing BrainAGE. *Frontiers in aging neuroscience*, 10, 317.

(57) Paulus MP, Squeglia LM, Bagot K, Jacobus J, Kuplicki R, Breslin FJ, Bodurka J, Morris AS, **Thompson WK**, Bartsch H, Tapert SF (2018). Screen media activity and brain structure in youth: Evidence for diverse structural correlation networks from the ABCD study. *NeuroImage*.

(56) Sullivan EV, Zahr NM, Sassoon SA, **Thompson WK**, Kwon D, Pohl KM, Pfefferbaum A. (2018). The role of aging, drug dependence, and hepatitis C comorbidity in alcoholism cortical compromise. *JAMA psychiatry*.

- (55) Garavan H, Bartsch H, Conway K, Decastro A, Goldstein RZ, Heeringa S, Jernigan T, Potter A, **Thompson WK**, Zahs D (2018). Recruiting the ABCD Sample: Design Considerations and Procedures. *Developmental Cognitive Neuroscience*.
- (53) Uban KA, Horton MK, Jacobus J, Heyser C, **Thompson WK**, Tapert SF, ... & Sowell ER (2018). Biospecimens and the ABCD Study: Rationale, Methods of Collection, Measurement and Early Data. *Developmental Cognitive Neuroscience*.
- (52) Sullivan EV, Zahr NM, Sassoos SA, **Thompson WK**, Kwon D, Pohl KM, Pfefferbaum A (2017). Enduring Cortical Compromise in Alcoholism: Accelerated by Aging and Compounded by Drug Dependence and Hepatitis C Comorbidity. *JAMA Psychiatry*.
- (51) Pfefferbaum A, Kwon D, Brumback T, **Thompson WK**, Cummins K, Tapert S, Brown S, Colrain I, Baker F, Prouty D, De Bellis M, Clark D, Nagel B, Chu W, Park SH, Daegu G, Pohl K, Sullivan E (2017). Altered Brain Developmental Trajectories in Adolescents Who Initiate Moderate and Heavy Drinking. *American Journal of Psychiatry*.
- (50) Curley LD, Newman E, Reuter C, **Thompson WK**, Brown TT, Akshoomoff N, Hagler DJ, Dale AM, Jernigan TL (2017). Cortical morphology of the pars opercularis and its relationship to motor inhibitory performance in a longitudinal, developing cohort. *Brain Structure and Function*.
- (49) Sullivan E, Brumback T, Tapert S, Prouty D, Fama R, **Thompson WK**, Brown S, Cummins K, Colrain I, Baker F, Clark D, Chung T, DeBellis M, Hooper S, Nagel B, Nichols N, Chu W, Kwon D, Pohl K, Pfefferbaum A (2017). Effects of prior testing lasting a full year in NCANDA adolescents: Contributions from age, sex, socioeconomic status, ethnicity, site, family history of alcohol or drug abuse, and baseline performance. *Developmental Cognitive Neuroscience*.
- (48) Pfefferbaum A, Rohlfing T, Pohl KM, Lane B, Chu W, Kwon D, Nichols BN, Brown SA, Tapert SF, Cummins K, **Thompson WK**, Brumback T, Meloy MJ, Jernigan TJ, Dale AM, Colrain IM, Baker FC, Prouty D, De Bellis MD, Voyvodic JT, Clark DB, Luna B, Chung T, Nagel BJ, Sullivan EV (2016). Adolescent Development of Cortical and White Matter Structure in the NCANDA Sample: Role of Sex, Ethnicity, Puberty, and Alcohol Drinking. *Cerebral Cortex*.
- (47) Chang L, Douet V, Bloss C, Lee K, Pritchett A, Jernigan TL, Akshoomoff N, Murray SS, Frazier J, Kennedy DN, Amaral DG, Gruen J, Kaufmann WE, Casey BJ, Sowell E, Ernst T, McCabe C, Newman E, Dale AM, Van Zijl P, Kuperman J, Murray S, Appelbaum M, Gamst A, **Thompson W**, Keating B, Mostofsky S, Ruberry EJ, Powers A, Rosen B, Kenet T, Kennedy D (2016). Gray matter maturation and cognition in children with different APOE ϵ genotypes. *Neurology* 87 585-594.
- (46) Walhovd KB, Krogsrud SK, Grydeland H, Panizzon MH, Rohani DA, Skranes J, **Thompson WK**, Reuter C, Tamnes CK, et al., and Fjell AM (2016). Neurodevelopmental origins of lifespan changes in brain and cognition. *PNAS* 113, 9357–9362.
- (45) Falahpour M, **Thompson WK**, Abbott AE, Jahedi A, Mulvey ME, Datko M, Liu TT, Müller R-A. (2016) 'Underconnected', but not broken? Dynamic fcMRI shows underconnectivity in autism is linked to increased intra-individual variability across time. *Brain Connectivity*.
- (44) Pohl KM, Sullivan EV, Rohlfing T, Chu W, Kwon D, Nichols BN, Zhang Y, Brown SA, Tapert SF, Cummins K, **Thompson WK**, Brumback T, Colrain IM, Baker FC, Prouty D, De Bellis MD, Voyvodic JT, Clark DB, Schirda C, Nagel BJ, Pfefferbaum A (2016).

Harmonizing DTI measurements across scanners to examine the development of white matter microstructure in 803 adolescents of the NCANDA study. *NeuroImage*.

(43) Vuoksima E, Panizzon M, Chen C-H, Fiecas M, Eyer L, Fennema-Notestine C, Hagler D, Franz C, Jak A, Lyons M, Neale M, Rinker D, **Thompson WK**, Tsuang M, Dale A, Kremen W (2016). Is bigger always better? The importance of cortical configuration with respect to cognitive ability. *NeuroImage*.

(42) Pohl, KM, Sullivan EV, Rohlfing T, Chu W, Brown SA, Tapert SF, Cummins K, **Thompson WK**, Kwon D, Nichols N, Colrain IM, Baker FC, Prouty D, De Bellis MD, Voyvodic JT, Clark DB, Nagel BJ, Pfefferbaum A. (2016). Harmonizing DTI Measurements across Scanners to Examine the Development of White Matter Microstructure in 803 Adolescents of the NCANDA Study. *NeuroImage*.

(41) Sullivan EV, Brumback T, Tapert SF, Fama R, Prouty D, Brown SA, Cummins K, **Thompson WK**, Colrain IM, Baker FC, De Bellis MD, Hooper SR, Clark DB, Chung T, Nagel BJ, Nichols N, Rohlfing T, Chu W, Pohl KM, Pfefferbaum A. (2016). Cognitive, emotion control, and motor performance of adolescents in the NCANDA study: Contributions from alcohol consumption, age, sex, ethnicity, and family history of addiction. *Neuropsychology*.

(40) Brown TT, Hagler DJ, Akshoomoff N, Bartsch H, Newman E, **Thompson WK**, Bloss CS, Murray SS, Schork N, Kennedy DN, Kuperman JM, McCabe C, Chung Y, Libiger O, Maddox M, Casey BJ, Chang L, Ernst TM, Frazier JA, Gruen JR, Sowell ER, Kenet T, Kaufmann WE, Mostofsky S, Amaral DG, Dale AM, Jernigan TL (2016). The Pediatric Imaging, Neurocognition, and Genetics (PING) Data Repository. *NeuroImage*.

(39) Fjell AM, Grydeland H, Krogsrud SK, Amlien I, Rohani DA, Mork L, Storsve AB, Tamnes CK, Due-Tønnessen P, Bjørnerud A, Sølsnes AE, Håberg A, Skranes J, Bartsch H, Chen C-H, **Thompson WK**, Panizzon MS, Kremen WS, Dale AM, Walhovd KB (2015). Development and aging of cortical thickness correspond to genetic organization patterns. *PNAS*.

(38) Brown SA, Brumback T, Tomlinson K, Cummins K, **Thompson WK**, Nagel BJ, De Bellis MD, Hooper SR, Clark DB, Chung T, Hasler BP, Colrain IM, Baker FB, Prouty D, Pfefferbaum A, Sullivan EV, Pohl KM, Rohlfing T, Nichols BN, Chu W, Tapert SF (2015). The National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA): A multi-site study of adolescent development and substance use. *Journal of Studies on Alcohol and Drugs*, 76(6), 895-908. doi: 10.15288/jsad.2015.76.895

(37) Pfefferbaum A, Rohlfing T, Pohl KM, Lane B, Chu W, Brown SA, Tapert SF, Cummins K, **Thompson WK**, Brumback T, Meloy MJ, Jernigan TL, Dale A, Colrain IM, Baker FC, Prouty D, De Bellis MD, Voyvodic JT, Clark DB, Luna B, Chung T, Nagel B, Sullivan EV (2015). Adolescent age-related differences in cortical and white matter structure: Puberty, sex, ethnicity, socioeconomic status in the NCANDA and PING samples. *Cerebral Cortex*.

(36) Newman E, **Thompson WK**, Bartsch H, Libiger O, Hagler DJ, Chen CH, Akshoomoff N, McCabe C, Bloss CS, Chang L, Casey BJ, Ernst TM, Frazier JA, Gruen JR, Murray SS, Sowell ER, Schork N, Kenet T, Kennedy DN, Kaufmann WE, Mostofsky S, Amaral DG, Dale AM, Jernigan TL (2015). High childhood anxiety is linked to altered patterns of cortical maturation. *Brain Structure & Function*.

(35) E, Panizzon MS, Chen C-H, Fiecas M, Eyer LT, Fennema-Notestine C, Hagler D, Fischl B, Franz CE, Jak A, Lyons MJ, Neale MC, Rinker D, **Thompson WK**, Tsuang MT, Dale AM, Kremen WS (2015). Relationships between general cognitive ability and cortical grey matter: distinct patterns for cortical surface area and thickness. *Cortex*.

- (34) Wilde EA, Bigler ED, Hanten G, Dennis M, Schachar RJ, Saunders AE, Ewing-Cobbs L, Chapman SB, **Thompson WK**, Yang TT, Levin HS, Max J (2015). Personality Change due to Traumatic Brain Injury in Children and Adolescents: Neurocognitive Correlates. *The Journal of Neuropsychiatry and Clinical Neurosciences*.
- (33) Docherty AR, Panizzon MS, Neale MC, Chen C-H, Eyler LT, Fennema-Notestine C, Hagler DJ, Franz CE, Jak A, Lyons MJ, Rinker DA, **Thompson WK**, Tsuang MT, Dale AM, Kremen WS (2015). Does Degree of Gyrfication Underlie the Phenotypic and Genetic Associations between Cortical Surface Area and Cognitive Ability? *NeuroImage*: 106, 154-160.
- (32) Jak AJ, Panizzon MS, Spoon KM, Fennema-Notestine C, Franz CE, **Thompson WK**, Kremen WS (2014). Hippocampal Atrophy Varies by Neuropsychologically-Defined MCI among Men in Their 50s. *The American Journal of Geriatric Psychiatry*.
- (31) Vuoksima E, Panizzon MS, Chen CH, Fiecas M, Eyler LT, Fennema-Notestine C, Hagler DJ, Fischl B, Franz CE, Jak A, Lyons MJ, Neale MJ, Rinker DA, **Thompson WK**, Tsuang MT, Dale AM, Kremen WS (2014). The Genetic Association Between Neocortical Volume and General Cognitive Ability Is Driven by Global Surface Area Rather Than Thickness. *Cerebral Cortex*. PMID: 24554725.
- (30) Chen C-H, Fiecas M, Gutierrez ED, Matthew S. Panizzon, Eyler LT, Vuoksima E, **Thompson WK**, Fennema-Notestine C, Hagler D, Jernigan TL, Neale MC, Franz CE, Lyons MJ, Fischl B, Tsuang MT, Dale AM, Kremen WS (2013). Genetic topography of brain morphology – searching for principles of cortical patterning. *PNAS*: 110, 17089-17094.
- (29) Eyler L, Vuoksima Eero, Panizzon M, Fennema-Notestine C, Neale M, Chen C-H, Jak A, Franz C, Lyons M, **Thompson WK**, Spoon K, Fischl B, Dale A, Kremen W (2014). Conceptual and Data-Based Investigation of Genetic Influences and Brain Asymmetry: A Twin Study of Multiple Structural Phenotypes. *Journal of Cognitive Neuroscience*: 26, 1100-1117.
- (28) Desikan RS, **Thompson WK**, Holland D, Hess CP, Brewer JB, Zetterberg H, Blennow K, Andreassen OA, McEvoy LK, Hyman BT, Dale AM (2014). The Role of Clusterin in Amyloid- β -Associated Neurodegeneration. *JAMA Neurology*: 71, 180-187.
- (27) Max JE, Pardo D, Hanten G, Schachar RJ, Saunders AE, Ewing-Cobbs L, Chapman SB, Dennis M, Wilde AE, Bigler ED, **Thompson WK**, Yang TT, Levin HS. (2014). Psychiatric disorders in children and adolescents six-to-twelve months after mild traumatic brain injury. *J. of Neuropsychiatry & Clinical Neurosciences*: 25, 272-282.
- (26) Desikan RS, **Thompson WK**, Holland D, Hess CP, Brewer JB, Zetterberg H, Blennow K, Andreassen OA, McEvoy LK, Hyman BT, Dale AM (2013). Heart fatty acid binding protein modulates A β -associated Alzheimer's neurodegeneration. *Molecular Neurodegeneration*: 8, 39.
- (25) Kremen WS, Fennema-Notestine C, Eyler LT, Panizzon MS, Chen CH, Franz CE, Lyons MJ, **Thompson WK**, Dale AM (2013). Genetics of Brain Structure: Contributions from the Vietnam Era Twin Study of Aging. *Am J Med Genet B Neuropsychiatr Genet.*: 162B(7), 751-61.
- (24) Vuoksima E, Panizzon MS, Chen C-H, Eyler LT, Fennema-Notestine C, Fiecas M, Fischl B, Franz CE, Grant MD, Jak A, Lyons MJ, Neale MC, **Thompson WK**, Tsuang MT, Xian H, Dale AM, Kremen WS (2013). Cognitive Reserve Modifies the Association

Between the Hippocampus and Episodic Memory in Middle-Age. *Neuropsychologia*: 51, 1124-1131.

(23) Thomas ML, Brown GG, **Thompson WK**, Voyvodic J, Greve DN, Turner JA, Mathalon DH, Ford J, Wible CG, Potkin SG, FBIRN (2013). An application of item response theory to fMRI data: prospects and pitfalls. *Psychiatry Research: Neuroimaging*: 30, 167-174.

(22) Desikan RS, McEvoy LK, Holland D, **Thompson WK**, Brewer JB, Aisen PS, Andreassen OA, Hyman BT, Sperling RA, Dale AM, ADNI (2013). Apolipoprotein E ϵ 4 does not modulate amyloid- β -associated neurodegeneration in preclinical Alzheimer's disease. *AJNR*: 34, 505-510.

(21) Max JE, Wilde EA, Bigler E, **Thompson WK**, MacLeod M, Vasquez AC, Merkley TL, Hunter JV, Chu ZD, Yallampalli R, Levin HS (2012). Neuroimaging correlates of novel psychiatric disorders after pediatric traumatic brain injury. *JAACAP* 51:1208-1217.

(20) Chen C-H, Gutierrez ED, **Thompson WK**, Panizzon MS, Jernigan TL, Eyler LT, Fennema-Notestine C, Jak AJ, Neale MC, Franz CE, Lyons MJ, Grant MD, Fischl B, Seidman LJ, Tsuang MT, Kremen W, Dale AM (2012). Hierarchical genetic organization of human cortical surface area. *Science*: 335 1634-1636.

(19) Desikan RS, McEvoy LK, **Thompson WK**, Holland D, Brewer JB, Aisen PS, Sperling RA, Dale AM (2012). Amyloid- β associated clinical decline occurs only in the presence of p-tau. *Archives of Neurology*: 69, 709-713.

(18) Wetherill R, Bava S, **Thompson WK**, Boucquey V, Pulido C, Tapert SF (2012). Frontoparietal Connectivity in Substance-naïve Youth with and without a Family History of Alcoholism. *Brain Research*: 13, 66-73.

(17) Siegle G, **Thompson WK**, Thase M, Collier A, Berman S, Friedman E (2012). Towards clinically employable neuroimaging in depression treatment: Is subgenual cingulate activity robustly prognostic for depression outcome in Cognitive Therapy across studies, scanners, and patient characteristics? *Arch Gen Psychiatry* 69: 913-923.

(16) Majid A, Aron AR, **Thompson WK**, Sheldon S, Hamza S, Stoffers D, Holland D, Goldstein J, Corey-Bloom J, Dale AM (2011). Basal ganglia atrophy in prodromal Huntington's disease is detectable over one year using automated segmentation. *Movement Disorders* 26, 2544-2551.

(15) Chen C-H, Panizzon MS, Fennema-Notestine C, Eyler LT, Jak AJ, Neale MC, **Thompson WK**, Franz CE, Hamza S, Jernigan TL, Lyons MJ, Grant MD, Fischl B, Seidman LJ, Tsuang MT, Kremen WS and Dale AM (2011). Genetic Influences on Cortical Regionalization in the Human Brain. *Neuron* 72: 537-544.

(14) Desikan RS, McEvoy LK, **Thompson WK**, Holland D, Roddey JC, Blennow K, Aisen PS, Brewer JB, Dale AM, the ADNI (2011). Hyperphosphorylated tau modulates amyloid- β associated synaptic degeneration and dysfunction in Alzheimer's disease. *Annals of Neurology* 70: 657-661.

(13) Fennema-Notestine C, Panizzon M, **Thompson WK**, Chen C-H, Eyler LT, Fischl B, Franz E, Grant D, Jak J, Jernigan TL, Lyons MJ, Neale MC, Seidman LJ, Tsuang MT, Xian H, Dale AM, Kremen WS (2011). Presence of Apolipoprotein E ϵ 4 allele associated with thinner frontal cortices in middle-age. *Journal of Alzheimer's Disease*: 26, 49-60.

(12) Eyler LT, Prom-Wormley E, Panizzon MS, Kaup AR, Fennema-Notestine C, Neale MC, Jernigan TL, Fischl B, Franz CE, Lyons MJ, Grant M, Stevens A, Pacheco J, Perry

ME, Schmitt JE, Seidman LJ, Thermenos HW, Tsuang MT, Chen C-H, **Thompson WK**, Dale AM, Kremen WS (2011). Genetic and Environmental Contributions to Regional Cortical Surface Area in Humans: A Magnetic Resonance Imaging Twin Study. *Cerebral Cortex* 21: 2313-2321.

(11) Majid DSA, Stoffers D, Sheldon S, Hamza S, **Thompson WK**, Goldstein J, Corey-Bloom J, and Aron AR (2011). Automated MRI analysis detects premanifest Huntington's disease neurodegeneration within one year. *Movement Disorders*: 26, 1481–1488.

(10) **Thompson WK** and Holland D (2011). Bias in Tensor Based Morphometry Stat-ROI Measures May Result in Unrealistic Power Estimates. *NeuroImage*: 57, 1-4.

(9) Ichikawa N, Siegle GJ, Jones NP, Kamishima K, **Thompson WK**, Gross JJ, Ohira H. (2011). Feeling bad about screwing up: Emotion regulation and action monitoring in the anterior cingulate cortex (ACC). *Cogn Aff Beh Neuroscience*: 11, 354-371.

(8) Brown GG, Mathelon D, Stern H, Ford J, Mueller B, Greve D, McCarthy G, Voyvodic J, Glover G, Diaz M, Yetter E, Ozyurt B, Jorgensen K, Wible C, Turner J, **Thompson WK**, Potkin S (2011). Multisite Reliability of Cognitive BOLD Data. *NeuroImage*: 54, 2163-2175.

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- (5) Buysse DJ, **Thompson WK**, Scott J, Franzen PL, Germain A, Hall ML, Moul DE, and Kupfer DJ. 2007. Daytime symptoms in primary insomnia: A prospective analysis using ecological momentary assessment. *Sleep Medicine*. **8**, 3, 198-208.
- (4) **Thompson WK** and Rosen O (2008). A Bayesian model for sparse functional data. *Biometrics*. 64, 54-63.
- (3) **Thompson WK**, Wang H, Xie M, Kolassa J, Rajan M, Tseng CL, Crystal S, Zhang Q, Vardi Y, Pogach L, and Safford M (2005). Assessing quality of diabetes care by measuring longitudinal changes in hemoglobin A1c in the Veterans Health Administration. *Journal of Health Services Research*. **40**, 6, 1818-1835.

(2) **Thompson WK**, Xie M, White H (2003). Box-Tidwell and fractional polynomial transformations for longitudinal data. *Biostatistics*. **4**, 3, 353-364.

(1) White H, Xie M, **Thompson WK**, Stouthamer-Loeber R, Stouthamer-Loeber M (2001). Psychopathology as a predictor of adolescent drug use trajectories. *Psychology of Addictive Behaviors*. **15**, 210-218.

Miscellaneous

(12) Song SJ, Wang J, Martino C, Jiang L, **Thompson WK**, Shenhav L, McDonald D, Marotz C, Harris PR, Hernandez CD, Henderson N, Ackley E, Nardella D, Gillihan C, Montacuti V, Schweizer W, Jay M, Combellick J, Sun H, Garcia-Mantrana I, Gil Raga F, Collado MC, Rivera-Viñas J, Campos-Rivera M, Ruiz-Calderon JF, Knight R, Dominguez-Bello M (2021). Naturalization of the microbiota developmental trajectory of Cesarean-born neonates after vaginal seeding. *Cell*.

(11) Ajmera V, **Thompson WK**, Smith DM, Malhotra A, Mehta RL, Tolia V, Yin J, Sriram K, Insel PA, Collier S, Richards L, Loomba R (2021). RAMIC: Design of a randomized, double-blind, placebo-controlled trial to evaluate the efficacy of ramipril in patients with COVID-19. *Contemporary Clinical Trials*.

(10) Bartsch H, **Thompson WK**, Jernigan T, Dale AM (2014). A web-portal for interactive data exploration, visualization and hypothesis testing. *Frontiers in Neuroinformatics*. doi: 10.3389/fninf.2014.00025.

(9) Herrera AP, Smith ML, Ory MG, Rodriguez HP, Warre R, **Thompson WK**, Azcue A, Romero JA (2011). The provision of diabetes-monitoring exams to older Latinos. *J Aging Health*;1075-100.

(8) Herrera AP, Meeks TW, Dawes S, Hernandez DM, **Thompson WK**, Sommerfeld DH, Allison M, Jeste DV (2011). Emotional and cognitive health correlates of leisure activities in older Latino and Caucasian women. *Psychology, Health, and Medicine* **16**, 661-674.

(7) Safford M, Brimacombe M, Zhang QW, Rajan M, Xie M, **Thompson WK**, Kolassa J, Maney M, and Pogach L (2009). Patient complexity in quality comparisons for glycemic control: An observational study. *Implementation Science*, **4**, 2.

(6) Stein BD, Kogan JN, Sorbero MJ, **Thompson WK**, and Hutchison SL (2007). Predictors of timely follow-up care among medicaid-enrolled adults after psychiatric hospitalization. *Psychiatric Services*, **58**, 12, 1563-1569.

(5) Ogunyemi D and **Thompson WK** (2002). A case controlled study of serial transabdominal amnioinfusions in the management of second trimester oligohydramnios due to premature rupture of membranes. *European Journal of Obstetrics, Gynecology, and Reproductive Biology* **102**,2,167-172.

(4) Thapar P, Zacny JP, **Thompson W**, Apfelbaum JL. (1995). Using alcohol as a standard to assess the degree of impairment induced by sedative and analgesic drugs used in ambulatory surgery. *Anesthesiology* **82**, 1, 53-59.

(3) Zacny JP, Lichtor JL, Thapar P, Coalson DW, Flemming D, **Thompson W**. 1994. Comparing the subjective, psychomotor, and physiological effects of intravenous butorphanol and morphine in healthy volunteers. *J of Pharmacol and Exp Therap* **270**, 2, 579-588.

(2) Zacny JP, Lichtor JL, Flemming D, Coalson DW, **Thompson W**. 1994. A dose-response analysis of the subjective psychomotor and physiological effects of intravenous morphine in healthy volunteers. *J of Pharmacol and Exp Therap* 268, 1, 1-9.

(1) Zacny JP, Lichtor JL, **Thompson W**, Appfelbaum JL. 1993. Propofol at a subanesthetic dose may have abuse potential in healthy volunteers. *Anesthesia and Analgesia* 77, 3, 544-552.

BOOK CHAPTERS

(5) **Thompson WK**, Bartsch H, Lindquist MA (2016). Structural Magnetic Resonance Imaging. In Ombao et al. (Eds.) Handbook of Neuroimaging Data Analysis. CRC Press.

(4) **Thompson WK**, Choi J, Anderson S (2013). Prediction Models. In Lavretsky et al. (Eds.) Late Life Mood Disorders. Oxford University Press: New York.

(3) Fennema-Notestine C, Panizzon MS, **Thompson WK**, Chen C-H, Eyer LT, Fischl B, Franz CE, Grant MD, Jak AJ, Jernigan TL, Lyons MJ, Neale MC, Seidman LJ, Tsuang MT, Xian H, Dale AM, & Kremen WS. (In Press). Presence of ApoE e4 allele associated with thinner frontal cortices in middle-age. In M Smith, G Perry, JW Ashford (Series Editors), and, JW Ashford, A Rosen, M Adamson, O Sabri, S Black, G Frisoni, C Jack & M Weiner (Eds.), Handbooks of Alzheimer's Disease - Volume 2 Imaging and the Alzheimer Brain: IOS Press.

(2) Hallmayer J, Hardan A, **Thompson WK**, O'Hara R (2010). Do the characteristics of ASC change across lifetime? In Autism Spectrum Conditions: Sven Bölte, PhD, & Joachim Hallmayer, MD, (Editors).

(1) Brown GG and **Thompson WK** (2010) Functional Brain Imaging in Schizophrenia: Selected Results and Methods, in Behavioral neurobiology of schizophrenia and its treatment. Neal R. Swerdlow, M.D., Ph.D. (Editor).

MISC

- **Thompson WK** and Stuart E, American Statistical Association Guidance on NIMH Grant Application Power Calculations (https://www.amstat.org/asa/files/pdfs/POL-NIMH_PowerCalculations.pdf)
 - **Quoted in Atlantic Monthly article:**
<https://www.theatlantic.com/science/archive/2017/10/how-a-focus-on-rich-educated-people-skews-brain-studies/544499/>
-

GRANTS

Current Grant Support

- **R01 MH120025-01** (PIs: Fan and Thompson). "Data Exploration and Analysis Portal for Brain Research through Advanced Imaging Neuroscience"

- **1U24DA041123** (PI: Anders Dale). “ABCD-USA CONSORTIUM: DATA ANALYSIS CENTER. Role on Project: Co-I, Associate Director in Charge of Biostatistics.
- **2U24AA021697** (PI: Pfefferbaum). NCANDA: DATA ANALYSIS COMPONENT. Role on Project: Subcontract PI in charge of consortium biostatistics.
- **1U24DA055330-01** (PI: Smyser). Healthy Brain and Child Development National Consortium Data Coordinating Center. Role on Project: Associate Director in Charge of consortium biostatistics.
- **The Lundbeck Foundation PRECISION PSYCHIATRY INITIATIVE** (PI: Benros). Denmark. Role: Subcontract PI.

Prior Grant Support

- **The Lundbeck Initiative for Integrative Psychiatric Research (iPSYCH)** (PIs: Preben Bo Mortensen, Thomas Werge, Ole Mors, Anders Børghlum, Merete Nordentoft). Role on Project: Lead Scientist.
- **1R01GM104400** “Polygenicity, Pleiotropy, and Power: Novel Statistical Methods for Gene Discovery.” Role on Project: PI.
- **5R01MH100900** (PI: Hallmayer) Integrative Molecular and Phenotype Analysis of 22q.11.2 Deletion Syndrome. Role on Project: Subcontract PI in charge of biostatistics.
- **1P30MH090333-02** (PI: Reynolds) 7/1/11-4/30/16 “ACISIR for Late-Life Depression Prevention.” Role on Project: Site PI.
- **1R01 MH094151-01** (PI: Jeste) 5/1/12 – 4/29/17 “Accelerated Biological Aging in Schizophrenia.” Role on Project: Co-Investigator.
- **R01HD061414-03** (PI: Jernigan) 9/28/10-7/31/12 “Mapping Individual Cognitive Differences to Neural Variance and School Readiness.” Role on Project: Co-Investigator.
- **R01 MH099987-01** (PIs: Jeste and Moore) 01/09/13 – 12/31/17 “Multi-Dimensional Successful Aging Among HIV-Infected Adults” Role on Project: Co-Investigator.
- **R01 MH100417-01** (PI: Depp) 7/10/13-5/31/17 “ Real-Time Mobile Cognitive Behavioral Intervention for Serious Mental Illness.” Role on Project: Co-Investigator.
- **R34MH093453-02** (PI: Swerdlow) 7/1/11-3/31/14 “Biomarker Strategies for Medication-Enhanced Cognitive Training in Schizophrenia.” Role on Project: Co-Investigator.
- **R01MH092793-02** (PI: Kaye) 5/1/11-2/29/16 “Monoamine Contributions to Neurocircuitry in Eating.” Role on Project: Co-Investigator.
- **5R01AG022381-09** (PI: Kremen) 9/15/03-8/31/1 “The VETSA Longitudinal MRI Twin Study of Aging.” Role on Project: Co-Investigator.

- **P30 MH080002-05** (PI: Jeste) 3/1/10 – 8/31/12 “Advanced Center for Innovation in Services and Interventions Research (in Older People with Psychoses).” Role on Project: PI R34 Project, Co-Investigator Research Methods Core.
- **UL1RR031980-03** (PI: Firestein) 7/1/10 – 3/31/15 “Improved Inferences in Dynamic Causal Modeling of Observational Data: Application to Breast Cancer Chemotherapy, Cognition and Sleep” San Diego Clinical and Translational Research Institute, Pilot Grant. Role on Project: Pilot PI.
- **K25MH076981** (PI: Thompson). Primary Investigator. “Modeling Dynamic Variation of Brain Function, Health and Symptoms in Depression,” NIMH Career Award. April 1, 2006-March 31, 2011.
- **NSFDMS-0806106** (PI: Thompson). Co-Primary Investigator. “Collaborative Research: Spectral and Connectivity Analysis of Non-Stationary Spatio-Temporal Data” August 15, 2008-August 15, 2010.
- **R01MH076981** (PI: GJ Siegle). Co-Investigator. “Functional Neuroanatomy of Recovery from Depression.” April 1, 2006-March 21, 2011.
- **R21DA024144** (PI: J Silk). Co-Investigator. “Emotion Regulation in Adolescence: A Social Affective Neuroscience Approach.” September 26, 2007-July 31, 2011.
- **R01AG13396** (PI: T Monk). Co-Investigator. “Phase Shift Tolerance in Older People.” December 1, 2006-November 30, 2011.
- **P30MH030915** (PI: DJ Kupfer). Co-Investigator. “MHIRC for Mood and Anxiety Disorders: Treatment Development and Applications Core.” May 15, 2001-November 30, 2006.
- **P01AG020677** (PI: T Monk). Co-Investigator. “Aging Well, Sleeping Efficiently: Intervention Studies, Core C.” June 1, 2003-May, 31, 2008.
- **R01AG031224-05** (PI: Dale). Co-Investigator “Structural & Metabolic Neuroimaging Biomarkers in Early Alzheimer’s Disease.”

PROFESSIONAL ACTIVITIES

- | | |
|--------------------|--|
| July 24 - 26, 2012 | <p>Co-PI and Co-Organizer
 Workshop on “Developing Novel Statistical Methods for NeuroImaging,” San Diego, CA.
 Funded by the National Sciences Foundation,
 Division of Mathematical Sciences</p> |
| 2011 - 2012 | <p>Director of Biostatistics Training
 Advanced Fellowship Program in Mental Health Research & Treatment (for all 23 sites nationwide), Veteran’s Administration Mental Illness, Research, Education and Clinical Care (MIRECC) Training Program.</p> |
| 2008 - 2015 | <p>Director of Statistics
 Stein Institute for Research on Aging.
 University of California, San Diego</p> |
| 2008 - 2011 | <p>Affiliated Faculty</p> |

Bipolar Career Development Institute
Activities: Seminars and consultations.

- 2006 **Statistical Mentor**
Advanced Research Institute in Geriatric Mental Health
Activities: Provided statistical consultation and mentorship.
- 2004 - 2008 **Undergraduate Advisor**
University of Pittsburgh, Department of Statistics
Activities: Advise undergraduate statistics majors.

EDITORSHIPS

- 2014 - current Consulting Editor
Neuropsychology
- 2014 - 2018 Associate Editor
Brain and Behavior

UNIVERSITY SERVICE

- 2010 - 2011 Psychiatry Department Faculty Representative
Academic Senate
University of California, San Diego
- 2011 - 2015 Member and Chair
Transportation Policy Committee
University of California, San Diego
- 2011 - 2015 Member
Campus and Community Environment Committee
University of California, San Diego
- May 2012 Faculty Representative
Hiring Committee for Director of Auxiliary Business Services.
University of California, San Diego
- 2014 - 2015 Psychiatry Department Faculty Representative
Academic Senate
University of California, San Diego
- 2011 - present Executive Committee Member
Center for Human Development
University of California, San Diego
- 2017-present Founding Faculty, Halicioğlu Data Science Institute
- 2017-present Executive Committee, Division of Biostatistics
- 2017-present Faculty Search Committee, Division of Biostatistics
- 2018-present Advisory Committee to the Chair, Family Medicine and Public Health

TEACHING AND MENTORSHIP

Courses

Spring 2017	FMPH 240 Biostatistics Rotations
Spring 2017	FMPH 290 Biostatistics Journal Club & Seminar
Fall 2017	FMPH 290 Biostatistics Journal Club & Seminar
Jan 2008 - Apr 2008	Stat 3141 (Graduate Seminar) <i>Bayesian Modeling for Biomedical Data</i> University of Pittsburgh Department of Statistics
Jan 2007 - Apr 2007	Stat 3141 (Graduate Seminar) <i>Generalized Additive Models</i> University of Pittsburgh Department of Statistics
Jan 2006 - Apr 2006	Stat 1632 (Graduate Course) <i>Intermediate Mathematical Statistics</i> University of Pittsburgh Department of Statistics
Sept 2005 - Dec 2005	Stat 1631 (Graduate Course) <i>Intermediate Probability</i> University of Pittsburgh Department of Statistics
Sept 2004 - Dec 2004	Stat 1000 (Undergraduate Course) <i>Introduction to Statistics</i> University of Pittsburgh Department of Statistics
Jan 2004 - Apr 2004	Stat 1632 (Graduate Course) <i>Intermediate Mathematical Statistics</i> University of Pittsburgh Department of Statistics

Ph.D. Students (Primary Advisor)

Nov 2020	Lingjing Jiang, PhD Ph.D. in Biostatistics University of California, San Diego
Oct 2016	Rong Zablocki, Ph.D. Ph.D. in Computational Statistics San Diego State University
Jul 2010	Dongli Zhou, Ph.D. Ph.D. in Statistics University of Pittsburgh
Jun 2010	Seo-Hyon Baik, Ph.D.

Ph.D. in Statistics
University of Pittsburgh

Ph.D. Students (Committee Member)

2017-present	Morten Dyddahl Krebs Copenhagen University
2018-present	Yiran Zhang Biostatistics University of California, San Diego
2018-present	Wenyi Lin Biostatistics University of California, San Diego
2018-present	Weiqi Zhao Cognitive Science University of California, San Diego
2018-2019	Lauren Curley Cognitive Science University of California, San Diego
2014-2015	Khalima Bolden Joint Doctoral Program in Clinical Psychology. SDSU and UCSD
Sept 2016	Andrew Schork, Ph.D. Cognitive Science University of California, San Diego
Oct 2014	Tim Mullen, Ph.D. Cognitive Science University of California, San Diego
Aug 2014	Thomas Quinlan, Ph.D. Joint Doctoral Program in Clinical Psychology SDSU and UCSD
Aug 2012	Jiin Choi, Ph.D. Biostatistics University of Pittsburgh
May 2008	Ghideon Ghebreorgis, Ph.D. Statistics University of Pittsburgh
May 2008	Sangdae Han, Ph.D. Statistics University of Pittsburgh
Nov 2007	Kang Sun, Ph.D. Biostatistics University of Pittsburgh
Jun 2007	Ana-Maria Iosif, Ph.D.

Statistics
 University of Pittsburgh

Jul 2006 Mark Gemalo, Ph.D.
 Statistics
 University of Pittsburgh

Apr 2006 Lulu Ren, Ph.D.
 Statistics
 University of Pittsburgh

Oct 2006 Shannon Lenz, Ph.D.
 Psychology
 University of Pittsburgh

Apr 2005 Jeongeun Kim, Ph.D.
 Statistics
 University of Pittsburgh

Invited Presentations and Seminars

July 30, 2018 “Issues and Advances in Power Calculations for Mental Health Studies”.
 Joint Meeting of the American Statistical Association, Vancouver, CA. Organized session.

June 12, 2018 “Spatial gene-by-environment mapping for schizophrenia reveals locale of upbringing effects beyond urban-rural differences”
 Nordic Conference of Psychiatry, Reykjavik, Iceland.

May 28, 2018 “Population Lifetime Trajectories of Psychiatric Comorbidities”
 Pathway to Drugs Meeting, Copenhagen, Denmark.

May 12, 2018 “Multi-Block Models for Multivariate Neuropsychiatric Data”
 Society of Biological Psychiatry 73rd Annual Meeting, New York, NY, USA. (Co-organizer of symposium)

May 8, 2018: “Study Design and Neurodevelopmental Inferences”.
 Flux Satellite Conference. Chapel Hill, North Carolina, USA.

Feb 26, 2018 Instructor. Winter School in Genetics, Reyjavik, Iceland.

January 24, 2018 “A Novel Bayesian Model for the Local False Discovery Rate”.
 University of Minnesota Department of Biostatistics.

October 27, 2017 Instructor, NORBIS Short Course, Oslo, Norway.

July 29, 2017: “Multi-Block Bayesian Models for Psychiatric and Brain Imaging Data”.
 Joint Meeting of the American Statistical Association, Baltimore, MD, USA. (Invited Session Co-organizer)

August 3, 2016 “Recent Advances in Bayesian Modeling of Dependent Biomedical Data”

- Joint Statistical Meetings of the American Statistical Association,
Chicago, IL, USA
- August 3, 2016 “New Statistical Methods for the Analysis of High-Dimensional Biomarkers” Joint Statistical Meetings of the American Statistical Association, Chicago, IL, USA
- November 29, 2016 “iPSYCH Study: Inflammation, Infections, and Psychiatric Diagnosis.
Stanley Foundation, Johns Hopkins School of Public Health, Baltimore, MD, USA.
- December 9, 2016 “Recent advances in statistical genetics”
Session Organizer and Speaker, CMStatistics ERCIM, Sevilla, Spain.
- October 13, 2017 “Novel Imaging Genetics Methods for the Adolescent Brain and Cognitive Development Study.”
World Congress of Psychiatric Genetics, Orlando, FL, USA.
- August 3, 2016 “New Statistical Methods for the Analysis of High-Dimensional Biomarkers”
Joint Statistical Meetings of the American Statistical Association
Chicago, IL, USA
- August 3, 2016 “Recent Advances in Bayesian Modeling of Dependent Biomedical Data”
Joint Statistical Meetings of the American Statistical Association
Chicago, IL, USA
- June 20, 2015 “Novel Methods and Recent Results for Enrichment and Pleiotropy in GWAS”
Symposium Chair and Speaker
Annual Meeting of the Behavior Genetics Association
San Diego, CA, USA
- June 12, 2015 Statistical Genetics Workshop
NORMENT
University of Oslo, Oslo, Norway
- October 15, 2014 “Beyond Bonferroni: Large Scale Inference for Complex Disorders”
Symposium Organizer and Moderator
World Congress of Psychiatric Genetics
Copenhagen, Denmark
- August 5, 2014 “Novel Methods for Improving Power in Psychiatric Genetics”
Invited Talk, Mental Health Research Section
Joint Statistical Meetings,
American Statistical Association
Boston, MA USA
- May 26, 2014 Statistical Genetics Workshop
NORMENT
University of Oslo
Oslo, Norway

- May 5, 2014 "Estimating Trajectories with Multi-Cohort Longitudinal Data"
Department of Biostatistics
Columbia University
New York, NY, USA
- April 23, 2014: "Beyond Bonferroni: Estimation of Effect Sizes
for Polygenic Traits"
Virginia Institute for Psychiatric and Behavioral Genetics
Virginia Commonwealth University
Richmond, VA, USA
- March 18, 2014 "A Bayesian Model of Activation and Functional
Connectivity for Event-Related fMRI"
Meeting of the Eastern North American Region
The International Biometrics Society
Baltimore, MD, USA
- October 28, 2013 "Two Novel Bayesian Models with Applications to
Psychiatric Imaging and Genetics"
Department of Biostatistics
University of Florida
Gainesville, FL, USA
- August 20, 2013 "Covariate Modulated Local False Discovery Rate."
Institute of Clinical Medicine
University of Oslo
Oslo, Norway
- August 5, 2013 "A Bayesian Model for Activation and Functional Connectivity"
Joint Statistical Meetings
American Statistical Association
Montreal, Canada
- July 1, 2013 "Heritability, Genetic Annotations, and Local FDR:
Methods for Imaging Genetics."
Institute of Mathematical Statistics
Chengdu, China
- October 16, 2012 "Genetic Pleiotropy between Schizophrenia and
Multiple Cardiovascular Disease Risk Factors."
World Congress of Psychiatric Genetics
Hamburg, Germany
- October 15, 2012 "Pleiotropy and Power: Methods for Improving Gene
Discovery in Psychiatric GWAS."
World Congress of Psychiatric Genetics
Hamburg, Germany
- October 8, 2012 "Methods for Improving Gene Discovery in GWS",
Department of Statistics
University of California, Irvine
Irvine, CA, USA
- June 13, 2012 "Statistical Issues in Longitudinal MRI and
Recommendations for Best Practice"
Organization of Human Brain Mapping
Beijing, China

June 8, 2012	<p>“Enrichment and False Discovery Rate” University of Oslo, Oslo, Norway</p>
April 4-5, 2012	<p>“Causal Inference in Observational Data” Stanford University Stanford, CA, USA</p>
July 30, 2011	<p>“A Mixture Model for Multi-Subject Inference in Source-Localized EEG” Joint Statistical Meetings American Statistical Association Miami Beach, FL, USA</p>
March 22, 2011	<p>“A Bayesian Model for Functional Connectivity.” Meeting of the Eastern North American Region International Biometrics Society Miami, Florida, USA</p>
October 30, 2010	<p>“Functional Connectivity Analysis of fMRI Data.” Brown University Department of Biostatistics Providence, RI, USA</p>
October 15-17, 2010	<p>Faculty Mentor and Speaker. MIRECC Fellows’ Conference. MIRECC Fellowship Program in Advanced Psychiatry and Psychology, Department of Veterans Affairs Office of Academic Affiliations Palo Alto, CA, USA</p>
October 15, 2010	<p>“Design and Analysis of Experiments” MIRECC Fellowship Program in Advanced Psychiatry and Psychology, Department of Veterans Affairs Palo Alto, CA</p>
March 21, 2010	<p>“Smoothing Spline ANOVA: The East Coast Traveling Subjects Study” Meeting of the Eastern North American Region International Biometrics Society New Orleans, LA, USA</p>
November 7, 2009	<p>“Accelerated Longitudinal Designs in Psychiatry” International College of Geriatric Psychoneuropharmacology Baltimore, MD, USA</p>
September 24, 2010	<p>“A Mixture Model for Source-Localized EEG.” Department of Mathematics and Statistics University of Texas, El Paso El Paso, TX, USA</p>
May 28, 2010:	<p>“Smoothing-Spline ANOVA: East-Coast Traveling Subjects Study” fBIRN All-Hands Meeting Irvine, CA, USA</p>
May 20, 2010	<p>“Connectivity Analysis in Major Depressive Disorder Using</p>

Vector Autoregressive Models of Event-Related fMRI Data”
Society for Biological Psychiatry
New Orleans, LA, USA

May 5, 2010 “Propensity Scores”
MIRECC Fellowship Program in Advanced Psychiatry
and Psychology, Department of Veterans Affairs
Palo Alto, CA, USA

June 2, 2009 “Adjusting for Multiple Comparisons”
MIRECC Fellowship Program in Advanced Psychiatry and
Psychology, Department of Veterans Affairs
Palo Alto, CA, USA

Jun 2009 “Dynamic Analysis of Sleep-Wake EMA Data”
J.Christian Gillin Invited Presentation
Department of Psychiatry,
University of California, San Diego
La Jolla, CA, USA

Jun 2009 “Using fMRI Connectivity to Classify Treatment Responders”
Classification Society Invited Talk
St. Louis, MO, USA

Jun 2009 “SEM and Causal Inference: A Brief Introduction”
MIRECC Fellowship Program in Advanced Psychiatry and
Psychology, Department of Veterans Affairs
Palo Alto, CA, USA

Apr 2009 “Discovering Structure with Network Analysis”
Stein Institute for Aging Grand Rounds
Department of Psychiatry
University of California, San Diego
La Jolla, CA, USA

Mar 2009 “Design and Analysis of Experiments”
Bipolar Career Development Institute
University of Pittsburgh
Pittsburgh, PA, USA

Dec 2008 “Dynamic Analysis of Sleep-Wake EMA Data”
Department of Psychology
Columbia University
New York, NY, USA

Aug 2008 “Effective Connectivity for fMRI.”
Joint Statistical Meetings
American Statistical Association
Denver, CO, USA

Feb 2007 “A Stimulus-Locked VAR Model for Effective Connectivity”
RAND Corporation
Pittsburgh, PA, USA

Sep 2007 “A VAR Model for Effective Connectivity in Slow
Event-Related fMRI Designs”
Department of Statistical Sciences

Brown University
Providence, RI, USA

- Mar 2007 "How to Consult with a Statistician"
Career Development Institute for Bipolar Disorder
Pittsburgh, PA, USA
- Mar 2007 "A Bayesian Model for Sparse Functional Data with
Continuous or Discrete Covariates"
Meeting of the Eastern North American Region
International Biometrics Society
Atlanta, GA, USA
- Nov 2006 "Statistics in Brain Science"
StatFest, University of Texas, El Paso
El Paso, TX, USA
- Jul 2006 "Ecological Momentary Assessment: Analysis of
Multidimensional Longitudinal Data"
Pittsburgh Mind Body Center
Pittsburgh, PA, USA
- Jun 2006 "Ecological Momentary Assessment: Analysis of
Multidimensional Longitudinal Data"
Mental Health Intervention Research Center
Western Psychiatric Institute and Clinic
Pittsburgh, PA, USA
- Jan 2005 "A Bayesian Model for Sparse Functional Data."
Department of Mathematics
University of Texas El Paso
El Paso, TX, USA
-

PROFESSIONAL SERVICE

Grant Reviews

- Jun 2018 NIH Review
Addiction Risks and Mechanisms Study Section
- Feb 2018 NIH Review
Addiction Risks and Mechanisms Study Section
- May 2017 NIH Review Panel
Interventions and Biomarkers Special Emphasis Panel
- Feb 2017 NIH Review Panel
Addiction Risks and Mechanisms Study Section
- Sep 2016 NIH Review Panel
Adult Maturational Changes and Dysfunctions in Emotion
Regulation
- July 2016 NIH Review Panel
Environmental Influences on Child Health Outcomes

Feb 2016	NIH Review Panel Brain Research through Advancing Innovative Neurotechnologies Shortcourses in Computational Neuroscience
Jul 2015	NIH Review Panel Environmental Influence on Child Health Outcomes Program
June 2015	NIH Brain Panel Research through Advancing Innovative Neurotechnologies R25
Apr 2014	Peer Reviewer British Medical Research Council
May 2009	NIH Review Panel National Heart, Lung, and Blood Institute

Data Safety and Monitoring Boards

2017-present	DSMB Member R01AG055389 : Evaluaton of Brain and Cognitive Changes in Older Adults with MCI Taking Lithium to Prevent Alzheimer Type Dementia (PI: A. Gildengers).
2017-present	DSMB Member R01MH100095 : Reward Learning in Late-Life Suicidal Behavior (PI: A. Dombrovski).
2015-2017	DSMB Member R34MH097567 : Remediation of HAND: Initial Efficacy, Real-World Relevance, and Mechanisms. (PI: T. Marcotte)
2013 - 2017	DSMB Member Treatment of Overweight Induced by Antipsychotic Medication in Young People with ASD (PI: E. Anagnostou)
2011 - 2016	DSMB Chair 5R34DA031058 : Personalized Text Message to Improve ART Adherence in HIV+ Methamphetamine Users (PI: D. Moore)
2012 - 2013	DSMB Member 5R01MH078924 : Improving Depression Outcome by Adding CBT for Insomnia to Antidepressents (PI: R. Manber)
2008 - 2013	DSMB Member 5R01MH077676 : Stimulant and risperidone for youth with severe physical aggression (PI: O. Bukstein)
2008 - 2013	DSMB Member 5R01MH077907 : Atomoxetine, placebo, and parent training in autism (PI: M. Aman).
2006 - 2010	DSMB Chair R34MH080696-01A1 : Treatment of Comorbid Insomnia in Military Veterans (PI: A. Germain)

Journal Referee

- American Journal of Geriatric Psychiatry
- Annals of Applied Statistics
- Annals of Neurology
- Bioinformatics
- Biological Psychiatry
- Biometrics
- Cognitive Therapy and Research
- Dementia and Geriatric Cognitive Disorders
- Journal of the American Statistical Association
- Journal of Clinical Psychiatry
- Journal of Clinical Sleep Medicine
- Journal of the International Neuropsychological Society
- Journal of Neurology
- Journal of Neuroscience Methods
- Journal of Statistical Computation and Simulation
- Neural Computation
- NeuroImage
- PLoS Computational Biology
- PLoS One
- PNAS
- Schizophrenia Bulletin
- Statistical Methods and Applications
- Statistics in Medicine
- Statistics and Probability Letters
- Proceedings of the National Academy of Sciences