

CURRICULUM VITAE

NAME: HUI ZHANG

TITLE: Professor

AFFILIATION: Division of Biostatistics, Department of Preventive Medicine, Northwestern University Feinberg School of Medicine

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ACADEMIC DEGREES:

Ph.D.	2010	University of Rochester, Rochester, New York (Statistics)
M.A.	2007	University of Rochester, Rochester, New York (Statistics)
M.S.	2005	University of Rochester, Rochester, New York (Pharmacology)
M.S.	2001	Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China (Neurophysiology)
B.S.	1998	Nankai University, Tianjin, China (Biology)

PROFESSIONAL APPOINTMENTS:

2019-	Professor, Division of Biostatistics, Department of Preventive Medicine, Northwestern University Feinberg School of Medicine, Chicago IL
2019-	Professor, Robert H. Lurie Comprehensive Cancer Center, Northwestern University Feinberg School of Medicine, Chicago IL
2019-	Professor, Mesulam Center for Cognitive Neurology and Alzheimer's Disease, Northwestern University Feinberg School of Medicine, Chicago IL
2022-	Professor, Center for Epidemiology and Population Health, Institute for Public Health and Medicine, Northwestern University Feinberg School of Medicine, Chicago IL
2019-	Director, Northwestern Brain Tumor SPORE Biostatistics and Bioinformatics Core, Northwestern University Feinberg School of Medicine
2019-	Leader, Biostatistics and Data Management Core, Mesulam Center for Cognitive Neurology and Alzheimer's Disease, Northwestern University Feinberg School of Medicine
2016-2019	Associate Member, Department of Biostatistics, St. Jude Children's Research Hospital, Memphis TN
2010-2016	Assistant Member, Department of Biostatistics, St. Jude Children's Research Hospital, Memphis TN

PROFESSIONAL SERVICES:

2019-	Member, Data and Safety Monitoring Committee, Robert H. Lurie Comprehensive Cancer Center, Northwestern University Feinberg School of Medicine
2016-2019	President, West Tennessee Chapter of American Statistical Association
2010-2019	Member, Biostatistics Protocol Review Committee, St. Jude Children's Research Hospital, Memphis TN

PROFESSIONAL SOCIETY MEMBERSHIPS:

2011-	International Chinese Statistical Association (Life-time member)
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2007-present	American Statistical Association
2009-present	Institute of Mathematical Statistics
2010-2019	Psychometric Society
2008-2019	International Biometric Society

HONORS AND AWARDS SINCE 2006:

- 2021 Teaching Excellence Award, Northwestern University
- Diane J. Willis Award for Outstanding Article in the Journal of Pediatric Psychology, 2017
- Adjunct Professor, Beijing Friendship Hospital, 2017-2019
- One of the winners, Springer Change-the-World Campaign, 2016
- Chinese Government Award for Outstanding Self-financed Students Abroad, 2010
- ENAR Distinguished Student Paper Award, New Orleans, LA, ENAR Spring Meeting, 2010
- ASA Student Paper Competition Award, Washington DC, JSM 2009

MENTEES:

- Zachary T. Goodman (December 2024-present), postdoc via NACC New Investigator Award Program
- Yining Guan (August 2024-present), Master program student
- Duruo Li (August 2023-present), Master program student
- Anna Ma (July 2023-present), Statistical Analyst
- Katrina Dobinda (July 2023-present), Statistical Analyst
- Alex Liu (July 2023-present), Statistical Analyst
- Megan Nguyen (January 2023 - present), Data Analyst
- Nina Reiser (January 2023 - present), Data Analyst
- Yihan Shi (October 2022- June 2023), Master Student
- Zhiheng Zhang (May 2022 – present), Statistical Analyst
- Zoe Chen (October 2021- June 2022), Master Student
- My Hai Vu (October 2021 – present), Statistical Analyst
- Latifa Bazzi (September 2021 – present), Statistical Analyst
- Sabah Sikander Munir (August 2021-present), Statistical Analyst
- Debby Zemlock (January 2021 - present) Director of Data Management
- Kirsten L. Bell Burdett (October 2019 - present), Statistical Analyst then promoted to Statistical Analyst Senior in 2021
- Irene B Helenowski (August 2019 – June 2023), Senior Biostatistician
- Amanda Li (August 2020 – March 2021), Statistical Analyst
- Lianne Michelle Jenkins (July 2020 – October 2021), Research Assistant Professor
- Kaitlyn L. O'Shea (July 2020 – August 2021), Statistical Analyst
- Nathan P. Gill (July 2020 – September 2021), Statistical Analyst, current Assistant Professor at Northwestern University Feinberg School of Medicine
- Nicola Lancki (December 2019 – July 2021), Statistical Analyst Senior
- Shoshanna Jiang (August 2019- June 2020), Master Student, current Biostatistician at Emmes
- Alan Kuang (August 2019 – August 2021), Statistical Analyst Senior

- Shane Elder (May 2019 – August 2020), College Student from Rhodes College
- Yujiao Mai (September 2018 – July 2021), postdoctoral fellow
- Luhang Han (August 2018 - 2024), statistical Ph.D. student
- Bella Ehrlich (May 2018 – August 2018), Summer College Student from Brown University
- Jiahui Xu (September 2017 – July 2020), Statistical Analyst
- Fang Wang (October 2016 – July 2019), Statistical Analyst
- Angel An (September 2016 – October 2017), Biostatistician
- Sherry Liu (August 2016 – July 2018), postdoctoral fellow, current assistant professor at the Department of Mathematics, University of New Orleans
- Wenjian Bi (March 2016 – July 2018), postdoctoral fellow, current Associate Professor at School of Basic Medical Sciences, Peking University
- Lei Wang (May 2016 – October 2017), Statistical Analyst, current Statistician at St. Jude Children's Research Hospital
- Yin Su (August 2016 – September 2017), Statistical Analyst, current Statistician at St. Jude Children's Research Hospital
- Lu Huang (April 2013 – August 2016), Statistical Analyst and then promoted to Biostatistician in November 2015, current Machine Learning Engineer at Uber AI
- Qinlei Huang (July 2010 – November 2014), Statistical Analyst and then promoted to Biostatistician in September 2013, current statistician at Merck & Co.
- Bryan Winter (August 2012 – August 2014), Statistics Ph.D. student from University of Memphis, current Vice President of Data and Research at Adventia Wellness
- Mingjuan Wang (August 2012 – April 2014), Statistics Ph.D. student from University of Memphis, current Statistical Analyst at St. Jude Children's Research Hospital
- Matthew P. Smeltzer (August 2011 – January 2015), Senior Biostatistician and then promoted to Lead Senior Biostatistician in September 2012, current Associate Professor of Epidemiology and Biostatistics at School of Public Health, University of Memphis
- Si Chen (August 2010 – August 2012), Statistics Ph.D. student from University of Memphis, current Associate Professor at Wuhan University

RESEARCH INTERESTS:

- Missing data
- Longitudinal discrete data analysis
- U-statistics
- Count data analysis in Next Generation Sequencing
- Survival analysis
- Single-Molecule Localization Microscopy (SMLM) image analysis
- Computational neuroscience

GRANT SUPPORT:

- R01 AG091388 (Gefen) 12/01/24 – 11/30/29 0.60 calendar
NIA \$3,958,760

Title: Anatomic, Pathologic, and Molecular Signatures of FTLT-TDP type C

The current proposal aims to expand on these discoveries in ways that go beyond PPA by encompassing other clinical manifestations of TDP-C, their corresponding hemispheric asymmetry patterns, their distinctive impact on local cortical circuitry, and their relationship to the molecular

fingerprints of the anterior temporal lobe. This proposal will benefit from synergies with the overall PPA program and the Northwestern ADRC and will, in turn, enrich both programs.

Role: Co-Investigator

- STU00219673 (Sonabend) 12/14/23 – 12/14/26 0.405 calendar
 CarThera SAS \$500,000
 Title: Phase 2A Trial of Immune Modulation in Combination with Ultrasound-Mediated Blood Brain Barrier Opening in Patients with Newly Diagnosed Glioblastoma
The objective is to evaluate and demonstrate feasibility and safety of this novel adjuvant regimen and provide some efficacy estimates to allow for subsequent hypothesis generation and design of definitive phase 2 and phase 3 clinical trials; and to evaluate the preliminary performance of a putative predictive marker and to identify additional or more robust molecular biomarkers. (AWD00001426, 60068110)
 Role: Co-Investigator
- R01 AI167272 (Liu) 7/15/22 – 6/30/27 0.40 calendar
 NIAID \$1,045,922
 Title: Clinical analysis and therapeutic development of exosomal ACE2
We hypothesize that the exosomal ACE2 not only serves a biomarker for COVID-19 pathogenesis but also represents an innovative decoy therapy to treat all strains of coronaviruses that use ACE2 for viral entry. (SP0072179, 60063049)
 Role: Co-Investigator
- 2P50CA221747-06 (Zhang) 08/01/23-07/31/28 2.40 calendar
 NCI \$1,045,922
 Title: Biostatistics and Bioinformatics Core of the Brain Tumor SPORE
The Biostatistics and Bioinformatics Core (B&B Core) provides state-of-the-art integrated data science support to all Brain Tumor SPORE projects. Database development and maintenance will provide a centralized resource for data tracking for preclinical studies, ensuring efficient reporting and statistical analysis of all experiments. In addition, clinical databases will be developed in conjunction with all project teams to complement existing clinical trial data registries at Northwestern and ensure custom data capture in a highly secure environment. Other details could be found at <https://reporter.nih.gov/search/G9Madqi050O4z-6hfRFbHg/project-details/10898624>
 Role: **Principle Investigator**
- R01 NS096376 (Ahmed) 08/01/23-07/31/28 0.24 calendar
 NINDS \$1,045,922
 Title: Cellular Plasticity and equilibrium in GBM Progression
To advance our understanding of therapeutic resistance in Glioblastoma (GBM), it is essential to characterize the individual cell during therapy those fuel tumor recurrence in GBM. However, it is challenging to study the GBM during conventional radio- and chemotherapy due to limited accessibility to patient samples during this time period. We have identified a novel mechanism where RRM2-mediated dCTP and dGTP can enhance the DNA repair in response to TMZ and promotes resistance to therapy. Based on this, we hypothesize that RRM2-mediated RNR activity is critical for chemoresistance in GBM. Our studies will provide novel insights regarding changes in dNTP synthesis that are associated with GBM adaptation and resistance during chemotherapy. This information, in turn, is expected to reveal novel approaches for delaying, if not preventing, tumor recurrence.
 Role: Co-Investigator
- R01HL165841 (Le Poole) 08/01/23-07/31/28 0.36 calendar
 NHLBI \$1,045,922
 Title: Time to ATTAC: Adoptive transfer of T cells against gp100+ cells to treat LAM
Lymphangiomyomatosis (LAM) is a rare disorder with devastating consequences for the young women diagnosed with this disease. LAM cells carry a dysfunctional TSC complex and exhibit constitutive mTOR activation. We propose to capitalize on the occult expression of melanoma associated antigens to develop safe and effective, T cell-based immunotherapy for LAM.
 Role: Co-Investigator

- U19 CA264338 (Butowski/Roger) 08/01/23-07/31/28 2.40 calendar
 NCI \$1,045,922
 Title: Advancing treatment and understanding of immunotherapy in glioblastoma
Immunotherapy holds great promise for the treatment of glioblastoma; still, certain characteristics of glioblastoma present inherent therapeutic challenges. Herein, two experienced interdisciplinary laboratory and clinical teams at UCSFs Helen Diller Family Comprehensive Cancer Center and Northwestern University's Robert H. Lurie Comprehensive Cancer Center join efforts to develop innovative immunotherapy approaches against glioblastoma.
 Role: Co-Investigator
- R56 AG075600 (Gefen) 08/01/23-07/31/28 0.12 calendar
 NIA \$1,045,922
 Title: Vulnerability Profiles of Comorbid Alzheimer and TDP-43 in Amnesic Dementia
The current study will address this major public health challenge by investigating the clinical and neurobiological signatures of comorbid TDP-43 and AD, with the long-term goal of contributing to the development of targeted interventions for dementia.
 Role: Co-Investigator
- R01 AG062566 (Gefen) 7/15/22 – 5/31/27 0.24 calendar
 NIA \$449,262
 Title: Clinical, Neuroanatomic, and Pathologic Signatures of FTLT-tau in Dementia Phenotypes
The proposed work aims to clarify the relationship between FTLT-tau, pathologic markers of cell death, in vivo MRI atrophy patterns, and distinct clinical features of FTLT-related dementia syndromes.
 Role: Co-Investigator
- P30 CA060553 (Platanias) 6/15/23 – 5/31/27 0.44 calendar
 NIH/NCI \$2,420,664
 Title: The Robert H. Lurie Comprehensive Cancer Center: Quantitative Data Sciences Core (QDSC) Shared Resource
The Quantitative Data Sciences Core (QDSC) provides a state-of-the-art integrated approach for Data Science support to Lurie Cancer Center (LCC) members in the basic, clinical and population sciences. 'Data Sciences' includes the three disciplines of Biostatistics, Bioinformatics and Clinical Informatics.
 Role: Co-Investigator
- R01 NS085770 (Geula) 9/10/21 – 8/31/26 0.72 calendar
 NINDS \$1,769,340
 Title: Concordance of TDP-43 Inclusions with Cortical Atrophy and Clinical Phenotype
Aggregation and propagation of misfolded proteins in the form of abnormal inclusions is a common feature of numerous neurodegenerative diseases. A majority of brains with frontotemporal lobar degeneration (FTLD) are characterized by mislocalization and aggregation of transactivation response element DNA binding protein-43 (TDP-43) into insoluble inclusions. We will conduct a comprehensive survey of microglia / immune gene and protein expression changes in brains of FTLD and hTDP transgenic mice, will explore alterations in synapses and synaptic proteins in FTLD and potential role of microglia mediated pruning in synaptic loss, and will investigate the role of microglia generated exosomes in spread of TDP-43 pathology in the mouse model.
 Role: Co-Investigator
- RF1 AG072080 (Popko) 9/01/23 – 8/31/24 0.60 calendar
 NIA \$630,031
 Title: Exploring the origins of myelin abnormalities in normal ageing and in vascular dementia
Vascular dementia (VD) is the second most common cause of cognitive abnormalities in the elderly behind Alzheimer's disease (AD). VD has been associated with various cardiovascular maladies, which are thought to contribute to diffuse white matter disease leading to dementia. We will focus on three cytoprotective pathways: the integrated stress response (ISR) pathway is initiated by a variety of stresses including oxidative stress, hypoxia and inflammation; the nuclear factor erythroid

2-related factor 2 (NRF2) pathway is activated in response to oxidative stress; and the hypoxia-inducible factor 1 (HIF-1) pathway is the master transcriptional regulator of the cellular response to hypoxia

Role: Co-Investigator

- U19 AG073153 (Rogalski) 01/15/20 – 12/31/24 0.12 calendar
NIA \$2,055,986

Title: Study to Uncover Pathways to Exceptional Cognitive Resilience in Aging (SUPERAgIng)

This proposal aims to establish a multicenter SuperAgIng Consortium to identify behavioral, health, biologic, genetic, environmental, socioeconomic, psychosocial, anatomic and neuropathologic factors associated with SuperAgIng.

Role: Co-Investigator

- R01 NS122395 (Balyasnikova) 8/01/23 – 7/31/25 1.80 calendar
NINDS \$33,649,634

Title: Understanding the Behavior of Novel IL13Ralpha2-directed T cell Engager for GBM

Based on our robust preclinical data, we hypothesize that (i) GBM access of systemically delivered BiTEs is a T-cell-dependent process, and (ii) BiTEs actively modulate T cell as well as other host immune response compartments, leading to a robust anti-tumor therapeutic response in preclinical GBM models.

Role: Co-Investigator

- R01 CA245969 (Sonabend) 04/01/20 - 03/31/25 0.60 calendar
NCI \$3,360,134

Title: Blood-brain barrier disruption with implantable ultrasound to enhance paclitaxel delivery: A Phase 1-2 clinical trial in recurrent glioblastoma

Our premise is that PTX will be effective against human GBM if sufficient tumor and brain concentrations are achieved. We hypothesize that US-based delivery of ABX will be tolerated, increase PTX concentrations in peri-tumoral brain, and provide a survival benefit for recurrent GBM patients. To investigate this, we will conduct a Phase 1-2 trial of US-based delivery of ABX for recurrent GBM patients to determine safety and early-signs of efficacy of this therapy.

Role: Co-Investigator

- R01 AG067781 (Rogalski) 05/01/21-04/30/24 0.60 calendar
NIA \$ 2,211,239

Title: Cognitive SuperAgIng: A model to explore resilience and resistance to aging and Alzheimers disease

The proposed research will characterize, in an interdisciplinary and longitudinal manner, a cohort of 80+ year-olds who display exceptionally successful cognitive aging and whom we have termed SuperAgers. This proposal will explore the mechanisms of the unique biologic and genetic features associated with SuperAgIng. The identification of these factors may make it possible to help elderly maintain cognitive strengths and prevent Alzheimer's disease.

Role: Co-Investigator

- HHSN261201200035I (Khan) 07/01/21 - 06/30/26 1.20 calendar
NCI \$20,024,671

Title: Cancer Prevention Agent Development Program: Early Phase Clinical Research

The overarching goal is to continue our contributions to cancer prevention science through the development of innovative, transformative, early phase trials testing new conceptual approaches that will enable clinical advances in the prevention of cancer.

Role: Co-Investigator

- 1UG1CA242643-01 (Lesniak) 04/01/21 - 03/31/26 0.12 calendar
NCI \$2,571,580

Title: SPORE for Translational Approaches to Brain Cancer

The Northwestern Brain Tumor SPORE is for improving treatment outcomes for patients afflicted with highly malignant primary brain tumors, with particular emphasis on glioblastoma. This goal will be accomplished through the efforts of a talented group of investigators that will combine

complementary expertise in a team science approach leading to meaningful progress in effectively treating tumors that currently have a dismal prognosis.

Role: Co-Investigator

- 5P50CA221747-03-5141 (Zhang) 09/15/20-06/30/25 0.60 calendar
 NCI \$2,262,495
 Title: Biostatistics and Bioinformatics Core of the Brain Tumor SPORE
he Biostatistics and Bioinformatics Core (B&B Core) provides state-of-the-art integrated data science support to all Brain Tumor SPORE projects. Database development and maintenance will provide a centralized resource for data tracking for preclinical studies, ensuring efficient reporting and statistical analysis of all experiments. In addition, clinical databases will be developed in conjunction with all project teams to complement existing clinical trial data registries at Northwestern and ensure custom data capture in a highly secure environment. Other details could be found at https://reporter.nih.gov/search/62QH5bgAm0m_9_az4cl6MQ/project-details/9981695
 Role: **Principle Investigator**
- 1UG1CA242643-01 (Khan) 05/01/20-01/31/25 0.60 calendar
 NCI \$3,522,930
 Title: Northwestern Cancer Prevention Consortium
Northwestern University proposes to continue to lead a consortium of organizations, the Northwestern Cancer Prevention Consortium (NCP), to design and conduct early phase clinical trials aimed at developing new options for the prevention of cancer.
 Role: Co-Investigator
- P30 AG072977 (Zhang) 09/23/19-09/22/23 1.80 calendar
 NIA \$1,931,897
 Title: Northwestern Alzheimer's Disease Research Center (Data Management & Statistical Core)
The ultimate goal of an Alzheimer's Disease Core Center (ADC) is to promote innovative research on dementia and its treatments while ensuring that patients and caregivers become the beneficiaries of resultant advances.
 Role: **Principle Investigator**
- 3R01AG056258-07S1 (Rogalski) 08/17/18-07/31/23 1.80 calendar
 NIOA \$10,695,000
 Title: Determinants of neurodegenerative decline in the aphasic variant of Alzheimer's disease
The results from this study are of crucial importance for defining objective biomarkers of disease type and progression, which will inform therapeutic treatment strategies for this relatively underserved dementia population. This project will also fill gaps in our knowledge of the relationship between atrophy patterns and both clinical and underlying pathology in patients with PPA.
 Role: Co-Investigator
- 5R01DC008552-13 (Mesulam) 08/17/19-07/31/23 1.80 calendar
 NIDCD \$611,832
 Title: Language in Primary Progressive Aphasia
The observational primary progressive aphasia (PPA) research program at Northwestern University seeks to study individuals living with PPA over time using neuropsychological testing and advanced imaging techniques.
 Role: Co-Investigator
- 5R01CA218436-03 (Kulkarni) 09/03/19-07/31/24 1.80 calendar
 NIH/NCI \$4,937,500
 Title: Evaluating the protective effect of a tissue selective estrogen complex (TSEC) in women with newly diagnosed ductal carcinoma in situ
The major goals of this project are to determine if conjugated estrogens/bazedoxifene (TSECs) 1) alter markers of progression in the ductal epithelium of the breast; 2) alter markers of progression in stroma of the breast; 3) are well tolerated in postmenopausal women undergoing surgery for DCIS.H

Role: Co-Investigator

- 3P30CA060553-24S4 (Platanias) 8/15/21 – 6/30/26 2.64 calendar
 NIH/NCI \$17,133,435
 Title: The Robert H. Lurie Comprehensive Cancer Center: Quantitative Data Sciences Core (QDSC) Shared Resource
The Quantitative Data Sciences Core (QDSC) provides a state-of-the-art integrated approach for Data Science support to Lurie Cancer Center (LCC) members in the basic, clinical and population sciences. 'Data Sciences' includes the three disciplines of Biostatistics, Bioinformatics and Clinical Informatics.
 Role: Co-Investigator
- 5U01AG016976-20 (Gefen) 03/01/17-02/28/23 .60 calendar
 NACC \$1,608,149
 Title: Clinicopathologic substrates of dementia syndromes with FTLD-tau
Outcomes of this multidisciplinary study will clarify the pathologic underpinnings of clinical heterogeneity in dementias, sharpen our understanding of the principles of selective vulnerability, and are highly relevant for the development of tauopathy-specific diagnostic tools and treatments.
 Role: Co-Investigator
- 2R01CA225002-02 (Backman) 05/01/17-04/30/23 .60 calendar
 NCI \$1,986,718
 Title: Translating buccal nanocytology for lung cancer screening into clinical practice
The goal of the proposed project is to finalize the remaining technology development aspects to translate nanocytology into a practical, accurate, and low-cost test, bring it to the point where it is viable for population screening, and conduct a pre-definitive clinical validation.
 Role: Co-Investigator
- 5P30AG013854-24 (Zhang) 08/01/17-07/31/23 .60 calendar
 NIOA \$1,974,892
 Title: Data Management and Statistical Core
The ultimate goal of an Alzheimer's Disease Core Center (ADC) is to promote innovative research on dementia and its treatments while ensuring that patients and caregivers become the beneficiaries of resultant advances.
 Role: **Principle Investigator**
- P50CA180995-04 (Catalona) 08/01/18-07/31/23 1.80 calendar
 NIH/NCI \$1,014,768
 Title: SPORE in Prostate Cancer
The SPORE in Prostate Cancer brings together basic scientists, clinicians, pathologists, biostatisticians, bio-informaticists and advocates who together will work to improve the outcome of patients with prostate cancer through experiments to understand the basic biology and through the design and conduct of innovative paradigm-shifting clinical trials.
 Role: Co-Investigator
- 2R56AG045571-06 (Rogalski/Mesulam) 06/12/19-06/30/20 .12 calendar
 NIA \$188,916
 Title: Exceptional Cognitive Aging: Neuropsychologic, Anatomic and Pathologic Correlates
We use uniform evaluation psychosocial, neurologic, lifestyle neuropsychological, and imaging measurements to study these individuals who reliably continue to return for biennial evaluations. Participants are co-enrolled into the Northwestern AD Center (NU ADC), which provides the infrastructure for blood collection and autopsy.
 Role: Co-Investigator
- SJCRH APO Grant (Zhang) 04/15/18-03/31/24 .42 calendar
 \$1,226,221
 Title: St. Jude Academic Program Postdoc Grant

This is a grant to support a postdoctoral researcher in my research group for two years to perform statistical methodology research and clinical collaboration research.

Role: **Principle Investigator**

- ALEXS LEMONADE STAND FDN (Jacola) 07/01/16-06/30/21 2.88 calendar
\$1,030,809

Title: Neurocognitive outcomes in survivors of childhood leukemia with Down syndrome

Characterize neurocognitive function in individuals with Down syndrome who were treated for childhood leukemia at St. Jude.

Role: Co-Investigator

- NIH 1 R01CA187079-01A1 (Conklin) 08/18/15 - 07/31/20 .60 calendar
\$790,075

Title: Prophylactic Multimodal Cognitive Intervention for Children with Medulloblastoma

The primary aim of this study is to test the efficacy of a prophylactically administered computerized working memory intervention among patients with newly diagnosed medulloblastoma. Secondly, we will compare the cognitive impact of a computerized working memory intervention administered in conjunction with an aerobic exercise intervention relative to either intervention alone, and use fMRI to examine neuroplasticity associated with working memory training.

Role: Co-Investigator

- NIH 5R21CA218625-02 (Conklin) 6/9/2014 - 2/28/2019 .30 calendar
\$65,000.00

Title: Memantine for Prevention of Cognitive Late Effects in Patients Receiving Cranial Radiation Therapy: A Pilot Study

Despite well-established findings of cognitive deficits in survivors of childhood brain tumors, there are few empirically validated interventions that mitigate impairments emerging secondary to treatment. Memantine during radiotherapy for brain metastases in adults has been shown to be well tolerated and associated with less cognitive declines over time relative to placebo; yet, there are no studies of memantine in children undergoing treatment for brain tumors. If memantine is shown to be a neuroprotective factor during radiation therapy, there is great potential for reducing cognitive morbidity and improving quality of life for the entire population of children undergoing irradiation for the treatment of brain tumors..

Role: Co-Investigator

- NIH 1 R03CA201540-01 (Willard) 09/15/19 - 08/31/20 0.60 calendar
\$1,275,937

Title: Cognitive and Psychosocial Functioning of Children Treated for Retinoblastoma

Little is known about the cognitive and psychosocial functioning of children with retinoblastoma; however declines in cognitive and adaptive functioning were recently demonstrated via serial assessments completed with a homogenous group of patients between diagnosis and age 5. Critical questions remain regarding the long-term cognitive and psychosocial functioning of children with retinoblastoma. Answering these questions will directly impact clinical care by informing the development of interventions.

Role: Co-Investigator

- NIH 2P30CA021765-38 BIOSTAT (Srivastava) 8/1/2016 - 7/31/2018 .60 calendar
\$185,248.50

Title: Cancer Center Support Grant (CCSG) Biostat-YR 38

The Biostatistics Shared Resource (BSR) provides collaborative, statistical support to Center members and statistical designs for institutional clinical, translational and pre-clinical studies, as well as for laboratory investigations. The BSR provides access to state-of-the-art, innovative statistical science; a centralized randomization system; access to SAS for Windows; and technical support for a web-based distributed data management system.

Role: Co-Investigator

- NIH 5R01CA136782-03 (Phipps) 1/15/2017 - 1/14/2019 .24 calendar
\$48,955.00

Title: Trauma and Growth in Pediatric Cancer
The major goals of this project are to: 1) Determine outcomes of posttraumatic stress and posttraumatic growth/benefit finding in children with cancer in comparison to a population of children without a history of serious illness; 2) Examine predictors of child posttraumatic stress and posttraumatic growth from medical variables, life events history, family environment, and child personality variables.
Role: Co-Investigator
- NIH R21HD061296-02 (Klosky) 7/15/2010 - 6/30/2014 .60 calendar
\$388,284.00

Title: Predictors of Adolescent Sperm Banking: Dev. of a Profiling and Referral Tool
To investigate risk factors of not banking sperm among at-risk adolescents newly diagnosed with cancer. To utilize factors most predictive of sperm banking outcome to develop a brief Profiling and Referral Tool designed to increase sperm banking among teens newly diagnosed with cancer.
Role: Co-Investigator
- NIH 5P30CA021765-34 BOSTAT (Boyett) 6/28/2010 - 2/28/2014 2.40 calendar
\$1,455,166.00

Title: CCSG Biostatistics SR- Biostatistics
To provide investigators access to uniformly high quality, innovative statistical science: a centralized randomization system: access to statistical software; technical support for a web-based distributed data management system; and advice on data management issues.
Role: Co-Investigator
- American Cancer Society (ACS) RSGPB-11- 1/1/2011 - 12/31/2013 .60 calendar
009-01-CPPB(YR3) (Conklin) \$191,944.00

Title: Computerized Intervention for Childhood Cancer Survivors
The major goal of this project is to investigate a computer-based intervention for childhood cancer survivors experiencing working memory problems. We hypothesize that participants in this intervention will demonstrate significantly greater improvement on performance- and rater-based measures of working memory, attention and executive functions relative to wait-list controls. We will use functional neuroimaging to examine neural correlates of working memory performance before and after the cognitive intervention in order to assess training-based neuroplasticity.
Role: Co-Investigator

SOFTWARE DEVELOPED:

[*Correspondence Author; †Supervisee as first author]

1. Jiahui Xu[†], Xueyan Liu, Cheng Cheng, **Hui Zhang**^{*}. R Package *colocalization*: Normalized Spatial Intensity Correlation, <https://cran.r-project.org/web/packages/colocalization/index.html>
2. Jiahui Xu[†], Xueyan Liu, Cheng Cheng, **Hui Zhang**^{*}. R Shiny APP *colocalization*, <https://zhanglab.shinyapps.io/colocalization/>
3. Yujiao Mai[†], Jiahui Xu, Deo Kumar Srivastava, **Hui Zhang**^{*}. R Shiny APP *MedSurvey*, <https://zhanglab.shinyapps.io/MedSurvey/>
4. Jiahui Xu[†], Bella Ehrlich, **Hui Zhang**^{*}. R Shiny APP *LTP EPSP*, longitudinal analysis of EPSP data in Long Term Potentiation (LTP) research. https://zhanglab.shinyapps.io/LTP_EPSP
5. Jiahui Xu[†], Hua Liang, **Hui Zhang**^{*}. R Shiny Dose Response, test the monotonicity of the dose response relationship and then perform corresponding appropriate model. <https://zhanglab.shinyapps.io/DoseResponse/>
6. Jiahui Xu[†], **Hui Zhang**^{*}. R Shiny Survival, plot K-M curves, perform Cox regression for univariate analysis, covariate selection based on BIC, and multi-variate analysis. https://zhanglab.shinyapps.io/survival_en/

7. Brain Zhang, Hui Zhang. R Shiny Mixed Model Analysis, plot Spaghetti plots, fit mixed effect model and Generalized Estimating Equations for longitudinal data analysis. https://zhanglab.shinyapps.io/Mixed_Model_Analysis/
8. Some of online shiny apps also have a desktop software version at <https://sites.northwestern.edu/hzhang/software/>

PUBLICATIONS:

Original Articles on Peer-reviewed Journals

Statistical Methodology Articles [*Correspondence Author; †Supervisee as first author]

1. Lu N, Tang W, He H, Yu Q, Crits-Christoph P, **Zhang H**, Tu XM. On the Impact of Parametric Assumptions and Robust Alternatives for Longitudinal Data Analysis. *Biometrical Journal* 51:627-643, 2009.
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170. Li H, Wu Y, Zou H, Koner S, Zhang J, Plichta JK, He Y, Wei Q, Tang L, **Zhang H**, Zhang B, Guo Y, Chen X, Li K, Lian L, Luo S. Clinical efficacy of CDK4/6 inhibitor plus endocrine therapy in HR-

- positive/HER2-0 and HER2-low-positive metastatic breast cancer: a secondary analysis of PALOMA-2 and PALOMA-3 trials. In press by *EBioMedicine*
171. Vitello DJ, Shah D, Wells A, Masnyk L, Cox M, Janczewski L, Abad J, Dawravoo K, D'Souza A, Suh G, Bayer R, Cristofanilli M, Bentrem D, Liu Y, **Zhang H**, Peng C, Santos L, Jennings L, Zhang Q, Chawla A. Mutant KRAS in Circulating Tumor DNA as a Biomarker in Pancreatic Cancer in Patients Treated with Neoadjuvant Chemotherapy. In press by *Annals of Surgery*
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Books and Book Chapters

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174. Tang W, Lu N, Chen R, **Zhang H**. Longitudinal Data Analysis. Chapter 2 of *Modern Clinical Trial Analysis*, Springer, 2013.
175. **Zhang H*** and Tu XM. The Generalized ANOVA – A Classic Song Sung with Modern Lyrics. Page 281-287 of *Statistical Modeling for Biological Systems*, Springer, 2020
176. Mai Y, **Zhang H**. Classic Linear Mediation Analysis of Complex Survey Data Using Balanced Repeated Replication. Chapter of *Modern Statistical Methods for Health Research*, Springer, 2021

Abstracts on Peer-reviewed Journals

177. **Zhang H**, Vulapalli SR, Coon S, Sundaram U, Basavappa S. CFTR expression is increased in chronically inflamed small intestine crypts. *Gastroenterology* 126(4):A300, 2004.
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180. Vidyasagar S, **Zhang H**, Ameen N, Golin-Bisello F, Melvin J, Basavappa S. Acute ileal inflammation alters CFTR-mediated anion secretion. *Gastroenterology* 130(4):A372, 2006.
181. Crabtree VM, Palmer S, **Zhang H**, Huang Q, Rach A, Kyle M, Gajjar A. Longitudinal Sleep Disturbance Symptoms in Children with Embryonal Tumors. *Sleep* 35:A373, 2012.
182. Schultz BL, Chen S, Nicholson J, Huang Q, **Zhang H**, Tyc VL. Health Outcomes Related to Secondhand Smoke Exposure Among Children with Cancer. *Annals of Behavioral Medicine* 43:S259, 2012.
183. Phipps S, Long A, Huang Q, **Zhang H**. Focusing Effects in Assessing the Impact of Childhood Cancer. *Rapid Communication* 33:32, 2012.
184. Phipps S, Leung W, Huang Q, **Zhang H**. Cognitive Outcome Following Pediatric Stem Cell Transplantation: Resolving the Effects of Age and Total Body Irradiation. *Psycho-oncology* 22(supplement 2):22-23, 2013.
185. Phipps S, Long A, Huang Q, **Zhang H**. Trauma and Psychological Growth in Children With Cancer: Are Childhood Cancer Survivors Suffering or Thriving? *Psycho-oncology* 22(supplement 2):91, 2013.
186. Knight S, Palmer S, Conklin HM, Schreiber J, Armstrong CL, Wallace D, Bonner M, Swain MA, Chapieski L, Mabbott D, Boyle R, **Zhang H**, Huang Q, Anderson V, Gajjar A. Working Memory Development Following Treatment for Childhood Medulloblastoma: A 5-Year Longitudinal Study. *Brain Impairment* 14(1): 156, 2013.
187. Conklin HM, Ashford JM, Clark KN, Martin-Elbahesh K, Hardy KK, Merchant TE, Ogg RJ, Jeha S, Wu S, **Zhang H**. Computerized intervention for amelioration of cognitive late effects among childhood cancer survivors. *Journal of Clinical Oncology* 31(15):A10034, 2013.

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189. Klosky JL, Russell K, **Zhang H**, Huang Q, Kutteh W, Brazina P, Simmons J, and Schover L. Adolescent Sperm Banking in North America: Results from the SBANK10 Study. *Fertility and Sterility* 102 (3): e159, 2014.
190. Crabtree VM, Parris KR, **Zhang H**, Huang L, Graef DM, Phipps S. Sleep and behavioral functioning in survivors of childhood hematopoietic stem cell transplant. *Sleep* 38:A374, 2015.
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193. Desai A, Burns JA, Cohen J, Cooley L, Weiner A, Vo A, Ko O, Helenowski I, **Zhang H**, Hu JC, Witte JS, Catalona WJ, Schaeffer EM, Kundu S. Risk of prostate cancer in men with chronic inflammatory conditions. *Journal of Urology* 203(4s): e970, 2020. doi:10.1097/JU.0000000000000939.018
194. Xu A, Panken E, Gonzales-Alabastro C, **Zhang H**, Murphy A, Amarasekera C. Urologists and LGBTQ Patients: A qualitative study of the practice patterns, attitudes, and knowledge base of urologists toward their LGBTQ Patients. *Journal of Urology* 209(4s): e284, 2023. doi: 10.1097/JU.0000000000003246.01

PRESENTATIONS:

Invited Talks

1. Major Statistical Challenges in Count Data Analysis, Department of Applied and Computational Mathematics and Statistics, University of Norte Dame, September 2024
2. Unbiased and Robust Analysis of Co-localization in Super-resolution Images. Korean University School of Medicine, July 2024
3. Unbiased and Robust Analysis of Co-localization in Alzheimer's Disease Research. National Alzheimer's Coordinating Center. August 2023
4. From Numbers to Cures – Biostatistics in Biomedical Research and Examples, Nankai University, Tianjin China, April 19, 2023
5. Retrospective Clinical Research Using Real World Data, The Second National Academic Conference on Lymphocytic Diseases, Tianjin China, April 13-16, 2023
6. Unbiased and Robust Analysis of Co-localization in Microscope Images. Department of Statistics and Data Science, Northwestern University Weinberg School of Arts & Sciences. February 2023
7. Unbiased and Robust Analysis of Co-localization in Microscope Images. Institute for Healthcare Delivery Science, Icahn School of Medicine at Mount Sinai. September 2022
8. Unbiased and Robust Analysis of Co-localization in Microscope Images. International Symposium on Modern Biostatistics and Machine Learning. University of Pretoria, South Africa. July 2022.
9. Unbiased and Robust Analysis of Co-Localization in Super-Resolution Images. ICSCA Canada Chapter 2022 Symposium: Statistics: From Data to Knowledge. Banff, Alberta, Canada. July 2022.
10. Statistical methods and considerations for COVID-19 vaccine evaluations. Collaborative Workshop on Big Data Analysis of COVID-19. Pretoria, South Africa. May 2022
11. Major Challenges in Count Data Analysis, American Statistical Association Philadelphia Chapter, Philadelphia PA, December 2021
12. Detection of Over-dispersion in Count Data with An Online Shiny App. National Alzheimer's Coordinating Center, March 2021
13. Major Challenges in Count Data Analysis, University of Illinois at Chicago, Chicago IL, January 2020
14. Major Challenges in Count Data Analysis, Icahn School of Medicine at Mount Sinai, New York NY, April 2019
15. Major Challenges in Count Data Analysis, Rush University Medical Center, Chicago IL, April 2019

16. Major Challenges in Count Data Analysis, GlaxoSmithKline, Philadelphia PA, April 2019
17. Panel – Opportunities and Challenges for Data Science in Biomedical Research (*as one of the 4 panelists*), Memphis DATA – A Data Science Conference, Memphis TN, March 2019
18. Statistics and Real Data Examples in Clinical Research, the 16th Chinese Pancreatic Surgery Congress, Xi'an, September 2018
19. From Numbers to Cures – Statistics and Real Data Examples in Clinical Research, Inner Mongolia Hospital, Hohhot, September 2018
20. From Numbers to Cures, the 15th Beijing International Digestive Disease Forum, June 2018
21. From Numbers to Cures, Beijing Children's Hospital, January 2018
22. From Numbers to Cures, Beijing Anzhen Hospital, November 2017
23. From Numbers to Cures, 2017 International Head and Neck Surgery Summit Forum, November 2017
24. Statistics in the Era of Big Data and Artificial Intelligence, University of Rochester Alumni Summit, October 2017
25. Statistical Analysis of Neuroscience Data and Examples, Fudan University Institute of Brain Science, September 2017
26. Longitudinal Data Analysis and Examples, the 14th Beijing International Digestive Disease Forum, June 2017
27. Introduction to the Design and Statistical Analysis of Clinical Trials. Peking University Tumor Hospital, June 2017
28. The Importance of Assumptions in Medical Data Analysis, the Friendship International Methodology Forum, May 2017
29. Major Statistical Challenges in Count Data Analysis, the 5th Multiple-discipline Forum of Mathematics, Computer Science and Life Science, May 2017
30. Major Statistical Challenges in Count Data Analysis, School of Mathematical Sciences, University of Science and Technology of China, May 2017
31. Statistical Methods for Biomedical Data and Examples, Institute of Molecular Medicine, Peking University, May 2017
32. Major Statistical Challenges in Count Data Analysis, Department of Mathematical Sciences, New Jersey Institute of Technology, April 2017
33. A Non-parametric Model to Address Over-dispersed Count Response in a Longitudinal Data Setting with Missingness, the 10th ICSA International Conference, Shanghai China, December 2016
34. Basic Statistics for Biomedical Data Analysis and Examples, the Ninth People's Hospital, Medical School of Shanghai Jiao Tong University, December 2016
35. Statistical Analysis of Biomedical Data and Big Data, UCLA Institute for Technology Advancement, Soochow China, December 2016
36. Basic Statistics for Biomedical Data Analysis and Examples, Institute of Neuroscience, Soochow University, December 2016
37. Major Statistical Challenges in Count Data Analysis, University of South Florida, October 2016
38. Major Statistical Challenges in Count Data Analysis, Rollins School of Public Health, Emory University, September 2016
39. Major Statistical Challenges in Count Data Analysis, Institute of Psychology, Chinese Academy of Sciences, September 2016
40. Common Statistical Challenges in Biomedical Research, School of Life Sciences, Nanchang University, September 2016
41. Major Statistical Challenges in Count Data Analysis, Beijing Institute of Genomics, Chinese Academy of Sciences, September 2016
42. Major Statistical Challenges in Count Data Analysis, CAS-MPG Partner Institute for Computational Biology, Chinese Academy of Sciences, September 2016
43. Major Statistical Challenges in Count Data Analysis, Shenzhen Institute of Mathematics, Chinese Academy of Sciences, August 2016
44. Major Statistical Challenges in Count Data Analysis, Department of Population Medicine, Harvard Medical School, August 2016
45. Detect Overdispersion in Longitudinal Counts, School of Bioscience and Bioengineering, South China University of Technology, May 2016
46. The Basic statistical methods for psychological data and examples, School of Psychology, Nanjing Normal University, Nanjing China, April 2016.

47. Statistical Challenges in Count Data Analysis, University of California at Riverside, April 2016
48. Statistical Challenges in Count Data Analysis, Mayo Clinic, April 2016
49. Statistical Challenges in Count Data Analysis, National Heart, Lung, and Blood Institute, NIH, March 2016
50. Medical Data Analysis, Big Data and Precision Medicine, Beijing Friendship Hospital, October 2015
51. Detect Overdispersion in Longitudinal Counts, the 4th International Symposium on Biopharmaceutical Statistics, Beijing, July 2015
52. Detect Overdispersion in Longitudinal Counts, Institute of Psychology, Chinese Academy of Sciences, June 2015
53. Applications of Functional Response Models to Clinical Research. Division of Biostatistics, Center for Devices and Radiological Health, U.S. Food and Drug Administration, March 2015
54. A Non-parametric Model to Address Overdispersed Count Response in a Longitudinal Data Setting with Missingness. School of Public Health, Huazhong University of Science and Technology, Wuhan China, December 2014
55. The Risk Warning and Prediction of Infectious Disease Outbreaks in U.S. and Related Analysis Methods. Chinese Academy of Inspection and Quarantine, Beijing, December 2012
56. Analyze Long-term Potentiation Data Using Transformed Statistical Longitudinal Models. University of Pittsburgh, Pittsburgh, PA, May 2012
57. Statistical Support for Department of Psychology, St. Jude Children's Research Hospital, Memphis, September 2011
58. Applications of Functional Response Models to Modern Clinical Research. Roche Pharmaceuticals, Shanghai, China, April 2010
59. Applications of Functional Response Models to Modern Clinical Research. University of Pittsburgh, Pittsburgh PA, March 2010
60. Generalized ANOVA for Concurrently Modeling Mean and Variance within a Longitudinal Data Setting. ENAR Spring Meeting, New Orleans LA, March 2010 (*invited as Distinguished Student Paper Competition Award winner*)
61. Applications of Functional Response Models to Modern Clinical Research. St. Jude Children's Research Hospital, Memphis TN, August 2009
62. Generalized ANOVA for Concurrently Modeling Mean and Variance within a Longitudinal Data Setting. JSM, Washington DC, August 2009 (*invited by ASA Social Statistics Section, Government Statistics Section and Survey Research Methods Section jointly as a Student Paper Competition Award winner*)
63. How To Appropriately Estimate IC50 When Inhibitory Drug Produces a Dose-dependent Stimulation of HIV Replication. Duke Computational & Systems Immunology Symposium, Durham, NC, June 2008 (*invited as poster award winner*)

Contributed Talks

64. Unbiased and Robust Analysis of Co-localization in Super-resolution Images. The 15th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2022), London UK, December 17-19, 2022.
65. Unbiased and Robust Analysis of Co-localization in Super-resolution Images. 2022 IMS International Conference on Statistics and Data Science (ICSIDS), Florence Italy, December 13-16, 2022
66. Generalized ANOVA for Concurrently Modeling Mean and Variance in Longitudinal Data with Missingness, the 3rd Workshop of Biostatistics and Bioinformatics, Atlanta, May 2014
67. Generalized ANOVA for Concurrently Modeling Mean and Variance for Repeated NGS Measures, the symposium Advances in Statistical Methods for Cancer Genetic Epidemiology, New York City, August 2013
68. Robust Inference for Intraclass Correlation Coefficients, JSM, Miami FL, August 2011
69. Distribution-free Model for Latent Population Mixture, ENAR Spring Meeting, Miami FL, March 2011
70. Distribution-free Model for Latent Population Mixture, JSM, Vancouver, Canada, August 2010
71. The Generalized ANOVA -- A Classic Song Sung with Modern Lyrics. Statistical Modeling for Biological Systems: *A Conference in Memory of Andrei Yakovlev*, Rochester NY, June 2009
72. The Generalized ANOVA -- A Classic Song Sung with Modern Lyrics. ENAR Spring Meeting, San Antonio TX, March 2009

73. Acute ileal inflammation alters CFTR-mediated anion secretion. Digestive Disease Week and the 107th Annual Meeting of the American Gastroenterological Association, May 2006, Los Angeles, CA
74. Acute inflammation inhibits ileal Ca^{2+} -stimulated anion secretion. XXXV International Congress of Physiological Sciences, San Diego, CA, April 2005
75. The central pair is a scaffold for flagellar energy metabolism. The 44th American Society for Cell Biology annual meeting, Washington D.C., December 2004
76. CFTR expression is increased in chronically inflamed small intestine crypts. Digestive Disease Week and the 105th Annual Meeting of the American Gastroenterological Association, New Orleans, LA, May 2004

Co-authored Conference Presentations

77. Adam M Sonabend,, Rimas Lukas,, Karan Dixit,, Priya Kumthekar,, Ditte Primdahl,, Matthew Tate,, James Chandler,, Steven Magill,, Elena Torres,, Sarah VanderMolen,, Rachel Ward,, Mariana Nieves,, Katarzyna Pituch,, John Bebow,, **Hui Zhang**, , Latifa Bazzi, Karl Habashy,, Shawn Harvey-Jumper, Nicholas Bukowski, Mitchell Berger, Guillaume Bouchoux, Michael Canney, Carole Desseaux, Alexandre Carpentier, Roger Stupp. Safety, feasibility, and early signs of efficacy of albumin-bound paclitaxel plus carboplatin delivered by blood-brain barrier opening using a skull-implantable ultrasound: Preliminary results of a Phase II trial in recurrent glioblastoma. 2025 SNO Annual Meeting, Honolulu HI, November 2025
78. Jasmine Machhi, Dominic Vitello, Amy Wells, Larissa Masnyk, Madison Cox, Krishay Sridalla, Dhavan Shah, Lauren Janczewski, Alex Horowitz, John Abad, Kevin Dawravoo, Grace Suh, Yingzhe Liu, **Hui Zhang**, Eric Collison, David J. Bentrem Bentrem, Lucas Santana-Santos, Lawrence Jennings, Qiang Zhang, Akhil Chawla. The assay matters: ctDNA detection by NGS vs ddPCR lead to distinct outcomes in localized pancreatic cancer. The 19th Annual Lewis Landsberg Research Day. Chicago IL, September 2025
79. Daniel Gutstein, Molly Mather, Elena Barbieri, Jaiashre Sridhar, Eunbi Kwon, Ajay Kurani, Nathan Gill, **Hui Zhang**, Sandra Weintraub, Changiz Geula, M-Marsel Mesulam, Tamar Gefen, & Todd Parrish. Volumetric Differences in Amygdala and Hippocampus across SuperAging Phenotypes. The 31st Annual Alzheimer Day, Chicago, May 2025
80. Deborah Zemlock, Tamar Gefen, Sandra Weintraub, Robert Vassar, **Hui Zhang**. Streamlining Missing Data Identification Across REDCap Databases Through Automation. The Computation and Data Exchange (CoDEX) Symposium, Evanston, IL, April 2025
81. Dominic J. Vitello, Dhavan Shah, Amy Wells, Madison Cox, Larissa Masnyk, Lauren Janczewski, John Abad, Kevin Dawravoo, Yingzhe Liu, **Hui Zhang**, Massimo Cristofanilli, Lawrence Jennings, Lucas Santana-Santos, David Bentrem, Qiang Zhang, Akhil Chawla. The Assay Matters: ctDNA detection by NGS vs ddPCR lead to distinct outcomes in localized pancreatic cancer. Society of Surgical Oncology 2025 Annual Meeting, Tampa FL, March 2025
82. Daniel Gutstein, Molly A. Mather, Elena Barbieri, Jaiashre Sridhar, Eunbi Kwon, Ajay Kurani, Nathan Gill, Hui Zhang, Sandra Weintraub, Changiz Geula, M-Marsel Mesulam, Tamar Gefen & Todd Parrish. Volumetric Differences in Amygdala and Hippocampus across SuperAging Phenotypes. The 31st Israel Society for Neuroscience (ISFN) Annual meeting, Eilat, January 2025
83. Nina Reiser, Deborah Zemlock, Kate LaFroschia, Tamar Gefen, Sandra Weintraub, Robert Vassar, **Hui Zhang**. A Novel R-Based Algorithm for Streamlining Dementia Diagnosis Categorization Using UDS Data. ADRC Fall Meeting, Boston, October 2024.
84. Deborah Zemlock, Tamar Gefen, Sandra Weintraub, Robert Vassar, **Hui Zhang**. Streamlining Missing Data Identification Across REDCap Databases Through Automation. ADRC Fall Meeting, Boston, October 2024
85. Madison Cox, Akhil Chawla, Amy Wells, Dominic Vitello, Larissa Masnyk, Dhavan Shah, Lauren Janczewski, John Abad, Massimo Cristofanilli, David Bentrem, Yingzhe Liu, **Hui Zhang**, Qiang Zhang, Grach Suh, Arelene D'Souza, Robert Bayer, Kevin Dawravoo. Mutant KRAS Detected in Circulating Tumor DNA Predicts Prognosis in Pancreatic Cancer Treated with Neoadjuvant Chemotherapy. The 18th Annual Lewis Landsberg Research Day. Chicago IL, September 2024
86. Brian McGrath, Rohan Shivede, Mohamed Youssef, Wenan Qiang, Gina scurti, Prathyaya Ramesh, Emilia Dellacecca, Ancy Thomas, Jose Guevara-Patino, **Hui Zhang**, Elizabeth Bartom, Daniel Dilling, Elizabeth Henske, Michael Nishimura, Vera Krymskaya, Suray Pandey, Caroline Le Poole.

- Harnessing immunotherapy for benign tumors: targeting LAM with adoptive T cell transfer. The 18th Annual Lewis Landsberg Research Day. Chicago IL, September 2024
87. Daniel Gutstein, Molly Mather, Elena Barbieri, Jaiashre Sridhar, Ajay Kurani, Nathan Gill, **Hui Zhang**, Sandra Weintraub, Changiz Geula, M-Marsel Mesulam, Tamar Gefen, Todd Parrish. Volumetric Differences in Medial Temporal Lobe Limbic Structures across SuperAging Phenotypes. US-Israel Alzheimer's Disease Conference, 2024. Tel Aviv, September 1st, 2024
 88. Dominic J. Vitello, Dhavan Shah, Amy Wells, Larissa Masnyk, Madison Cox, Lauren M. Janczewski, John Abad, Kevin Dawravoo, Arlene D'Souza, Grace Suh, Robert Bayer, Massimo Cristofanilli, David Bentrem, Yingzhe Liu, **Hui Zhang**, Lucas Santana-Santos, Lawrence J. Jennings, Qiang Zhang, Akhil Chawla. Mutant KRAS in Circulating Tumor DNA Assessed by Digit Droplet PCR as a Biomarker in Pancreatic Cancer in Patients Treated with Neoadjuvant Chemotherapy. AACR Special Conference: Pancreatic Cancer, Boston, September 2024
 89. Pharmacokinetic analysis of carboplatin and fluorescein brain penetration and permanence following LIPU/MB. 2024 Society for Neuro-Oncology (SNO) Annual Meeting, Houston, November 2024
 90. Víctor A. Arrieta, Johnny Duerinck, Kirsten B. Burdett, Wietse Geens, Julia Katharina Schwarze, Andrew Gould, Karl Habashy, Li Chen, Matthew McCord, Craig Horbinski, **Hui Zhang**, Roger Stupp, Bart Neyns, Adam M. Sonabend. Evaluating ERK1/2 Phosphorylation as a Predictive Biomarker for Survival in Recurrent Glioblastoma Patients: A REMARK Criteria-Guided Analysis of a Clinical Trial Cohort Treated with Intracerebral PD- and CTLA- Blockade. Congress of Neurological Surgeons Conference 2023, Washington DC, September 2023
 91. Alex Xu, Evan Panken, Christopher Gonzales-Alabastro, **Hui Zhang**, Adam Murphy, Channa Amarasekera. Urologists and LGBTQ Patients: A qualitative study of the practice patterns, attitudes, and knowledge base of urologists toward their LGBTQ Patients. the American Urological Association's 2023 Annual Meeting, Chicago, May 2023
 92. Kaouther Ajroud, Callen Spencer, Thomas J. Montine, Syed Bukhari, Claudia Kawas, Maria Corrada, Erika Pladies, Liuliu Pan, Jessica F. Tranovich, Ross Reichard, **Hui Zhang**, Qinwen Mao, Michelle Mielke, Ron C. Petersen, Dennis W. Dickson, Melissa E. Murray, Marek Marsel Mesulam, Tamar Gefen, Xueyan Liu, Margaret E. Flanagan. The impact of vascular pathology lesions on astrocytic Tau alterations in the development of dementia. IAMBRAIN 2023 Worldwide Conference, London, April 2023
 93. Grace Minogue, Allegra Kawles, Antonia Zouridakis, Rachel Keszycki, Nathan Gill, Makayla Kochheiser, Vivienne Lubbat, Kaouther Ajroud, Callen Spencer, Jaclyn Lilek, Qinwen Mao, Margaret E. Flanagan, **Hui Zhang**, Eileen Bigio, M.-Marsel Mesulam, Changiz Geula, Tamar Gefen. Burden of pathology in hippocampal subregions can distinguish amnesic dementia with comorbid Alzheimer's and TDP-43 pathology from pure Alzheimer's and FTLD-TDP. The International Conference on Frontotemporal Dementias, Paris, November 2022
 94. Matthew McCord, Kristyn Galbraith, Pouya Jamshidi, Rimas Lukas, Kirsten Burdett, **Hui Zhang**, Lawrence Jennings, Matija Snuderl, and Craig Horbinski. Using Variant Allelic Fraction of Glioma Driver Mutations to Evaluate MGMT Promoter Methylation Results. 2022 Society for Neuro-Oncology (SNO) Annual Meeting, Tampa, November 2022
 95. Víctor A. Arrieta, Johnny Duerinck, Kirsten B. Burdett, Wietse Geens, Julia Katharina Schwarze, Andrew Gould, Li Chen, Matthew McCord, Craig Horbinski, **Hui Zhang**, Roger Stupp, Bart Neyns, Adam M. Sonabend. p-ERK is associated with overall survival in recurrent GBM patients treated with intracerebral administration of PD-1 and CTLA-4 blocking antibodies. 2022 Society for Neuro-Oncology (SNO) Annual Meeting, Tampa, November 2022
 96. Jacob S. Choi, Latifa Ali Bazzi, **Hui Zhang**, Matt Kudelka, Mia Andreoli, Previn Ganesan, Jordyn Silverstein, Amanda Hanks, Wenwen Chen, Amanda Lee, Russelle Hansen, Elizabeth Buchbinder, Alexander Wei, Benjamin Park, Eduardo Fernandez Hernandez, Dominika Dulak, Meghan J. Mooradian, Alekhya Gunturi, Daniel Olson, Alexander Shoushtari, Katy Tsai, Shailender Bhatia, John Hyngstrom, Richard Carvajal, Douglas B. Johnson, Gino K. In, Yana G. Najjar, Ryan Sullivan, Jeffrey Sosman, Sunandana Chandra. Clinical Practice and Outcomes of Patients with Primary Mucosal Melanoma in the Adjuvant Setting. The 19th International Congress of the Society for Melanoma Research, Edinburgh UK, October 2022.
 97. Wenan Qiang, Rohan Shivde, Gina Scurti, Prathyaya Ramesh, Emilia Dellacecca, Ancy Thomas, Heng-Jia Liu, Jose Guevara, **Hui Zhang**, Elizabeth Bartom, Daniel Dilling, Scott Budinger, Elizabeth P. Henske, Vera Krymskaya, Mike Nishimura, and Caroline Le Poole. Preclinical testing of adoptive T

- cell therapy for lymphangioleiomyomatosis. 2022 International LAM Research Conference & LAMposium. Chicago, September 2022
98. Matthew McCord, Kristyn Galbraith, Pouya Jamshidi, Rimas Lukas, Kirsten Burdett, **Hui Zhang**, Lawrence Jennings, Matija Snuderl, and Craig Horbinski. Using Variant Allelic Fraction of Glioma Driver Mutations to Evaluate MGMT Promoter Methylation Results in Gliomas. 2022 American Association of Nurse Practitioners (AANP) Fall Conference, Anaheim CA, September 2022
 99. Angela Christine Roberts, Haylie Noel Santos, Nathan Pruneau Gill, **Hui Zhang**, Emily Rogalski. Caregiving Burdens in Aphasic Dementia and the Relationship to Communication Challenges. The Alzheimer's Association International Conference 2022, San Diego, August 2022
 100. Jaclyn Lilek, Kaouther Ajroud, Callen Spencer, Arleen Matos, Xueyan Liu, **Hui Zhang**, Borna Bonakdarpour, M. Marsel Mesulam, Eva Bambakadis, Rachel Shapiro, Alexander Feldman, Rudolph J. Castellani, Matthew McCord, Pouya Jamshidi, Tamar Gefen, Sandra Weintraub, Margaret E. Flanagan. TDP43 Associated Tri-Glial Dysfunction in Dementia. The Alzheimer's Association International Conference 2022, San Diego, August 2022
 101. Kaouther Ajroud, Jaclyn Lilek, Callen Spencer, Arleen Matos, Shadi Ghourchian, Eva Bambakadis, Rachel Shapiro, Benjamin Danner, Alexander Feldman, Matthew McCord, Pouya Jamshidi, **Hui Zhang**, Xueyan Liu, M. Marsel Mesulam, Tamar Gefen, Sandra Weintraub, Margaret E. Flanagan. Quantification of synaptic markers in Alzheimer disease. 2022 AANP (American Association of Nurse Practitioners) National Conference. Orlando, June 2022
 102. Adam M. Sonabend, Andrew Gould, Yu Luan, Ye Hou, Li Chen, Mikoto A. Kobayashi, Brandyn Castro, Daniel Y. Zhang, Farida V. Korobova, Christina Amidei, Mark W. Youngblood, John Patrick F. Bebawy, Benjamin Liu, Craig M. Horbinski, Carole Desseaux, Irene B. Helenowski, **Hui Zhang**, Miguel Muzzio, Feng Yue, Michael Canney, Roger Stupp. Repeated opening of the blood-brain barrier with the skull-implantable SonoCloud-9 (SC9) device: Phase 1 trial of nab-paclitaxel and SC9 in recurrent glioblastoma. 2022 ASCO Annual Meeting, Chicago, June 2022
 103. Adam M. Sonabend, Andrew Gould, Yu Luan, Ye Hou, Li Chen, Mikoto A. Kobayashi, Brandyn Castro, Daniel Y. Zhang, Farida V. Korobova, Christina Amidei, Mark W. Youngblood, John Patrick F. Bebawy, Benjamin Liu, Craig M. Horbinski, Carole Desseaux, Irene B. Helenowski, **Hui Zhang**, Miguel Muzzio, Feng Yue, Michael Canney, Roger Stupp. Skull-implantable ultrasound-based blood-brain-barrier opening leads to drug penetration to the brain, ultrastructural and transcriptional alterations in endothelium: A Phase 1 trial in glioblastoma. the International Symposium of Ultrasound for Regional Anesthesia, Pain Medicine, and Point-of-Care Application (ISURA 2022), Toronto, June 2022
 104. Dylan Isaacson, Conor B. Driscoll, Xinlei Mi, Jordan Rich, Travis Meyers, Yu Jiang, Linda Kachuri, John Witte, Philip Silberman, Steven Belknap, William Temps, **Hui Zhang**, Shilajit D. Kundu. TNF-Alpha Inhibitor Use is Associated with a Reduced Risk of Prostate Cancer in Patients with Autoimmune Diseases. The American Urological Association's 2022 Annual Meeting, New Orleans, May 2022.
 105. Adam M. Sonabend, Andrew Gould, Yu Luan, Ye Hou, Li Chen, Mikoto A. Kobayashi, Brandyn Castro, Daniel Y. Zhang, Farida V. Korobova, Christina Amidei, Mark W. Youngblood, John Patrick F. Bebawy, Benjamin Liu, Craig M. Horbinski, Carole Desseaux, Irene B. Helenowski, **Hui Zhang**, Miguel Muzzio, Feng Yue, Michael Canney, Roger Stupp. Skull-implantable ultrasound-based blood-brain-barrier opening leads to drug penetration to the brain, ultrastructural and transcriptional alterations in endothelium: A Phase 1 trial in glioblastoma. 2022 AANS Annual Scientific Meeting (American Association of Neurological Surgeons Meeting), Philadelphia, April-May 2022
 106. Angela C. Roberts, Haylie Santos, Nathan Gill, Elizabeth Salley, **Hui Zhang**, Emily Rogalski. Convergent and Construct Validity of a Conversation Difficulties Outcome Measure in Primary Progressive Aphasia. GSA 2021 Annual Scientific Meeting, virtual, November 2021
 107. Angela C. Roberts, Haylie Santos, Nathan Gill, **Hui Zhang**, Elizabeth Salley, Emily Rogalski. Communication Difficulties and their Association with Caregiving Burdens in Aphasic Dementia. GSA 2021 Annual Scientific Meeting, virtual, November 2021
 108. Yazan Numan, Hamza Tariq, Jie Fan, Ping Xie, Madelyn Burkart, Yasmin Abaza, Yi-Hua Chen, Shira Dinner, Olga Frankfurt, **Hui Zhang**, Jessica K. Altman, Bin Zhang. Myeloid sarcoma reveals a unique AML micro-environment and a differential prognosis based on transplant status and type of treatment received. The 63rd ASH Annual Meeting & Exposition. Atlanta, December 2021

109. Karpouzian-Rogers T, Makowski-Woidan B, Kuang A, **Zhang H**, Fought A, Engelmeyer J, Mesulam MM, Weintraub S, Rogalski E. NIH Toolbox® Episodic Memory Measure Differentiates Older Adults with Exceptional Memory Capacity from those with Average Memory. 2021 Alzheimer's Association International Conference, virtual, October 2021
110. Allegra Kawles, Rachel Keszycki, Grace Minogue, Callen Spencer, Nathan Gill, Jaclyn Lilek, Ivan Ayala, Robert Shepard, Kaouther Ajroud, Christina Coventry, Emily Rogalski, Sandra Weintraub, Alex Feldman, Qinwen Mao, Margaret Flanagan, **Hui Zhang**, Eileen Bigio, M-Marsel Mesulam, Changiz Geula, Tamar Gefen. Concordance between Neocortical Distribution of Pick's Disease and the Salience of Distinct Dementia Phenotypes. 2021 Neuroscience Annual Meeting, Chicago, November 2021.
111. Grace Minogue, Allegra Kawles, Nathan Gill, Makayla Kochheiser, Rachel Keszycki, Vivienne Lubbat, Kaouther Ajroud, Callen Spencer, Jaclyn Lilek, Margaret Flanagan, **Hui Zhang**, Eileen Bigio, M.-Marsel Mesulam, Changiz Geula, Tamar Gefen. Contributions of Tau and TDP-43 Hippocampal Pathology in Amnesic Dementia. 2021 Neuroscience Annual Meeting, Chicago, November 2021.
112. Rachel Keszycki R, Kawles A, Minogue G, Gill N, Juthapan S, Coventry C, **Zhang H**, Rogalski E, Weintraub S, Grace Minogue, Allegra Kawles, Nathan Gill, Makayla Kochheiser, Rachel Keszycki, Vivienne Lubbat, Kaouther Ajroud, Callen Spencer, Jaclyn Lilek, Margaret Flanagan, **Hui Zhang**, Eileen Bigio, M.-Marsel Mesulam, Changiz Geula, Tamar Gefen. Contributions of Tau and TDP-43 Hippocampal Pathology in Amnesic Dementia. 2021 Neuroscience Annual Meeting, Chicago, November 2021.
113. Rachel Keszycki R, Kawles A, Minogue G, Gill N, Juthapan S, Coventry C, **Zhang H**, Rogalski E, Weintraub S, Mesulam M, Geula C, Gefen T. Characterization of Distinct Neuropsychiatric Trajectories in FTLD-tauopathies. 2021 Neuroscience Annual Meeting, Chicago, November 2021.
114. Allegra Kawles, Yasushi Ishihara, Nathan Gill, Alex Feldman, **Hui Zhang**, Margaret Flanagan, M.-Marsel Mesulam, Changiz Geula, Eileen Bigio, Qinwen Mao, Tamar Gefen. Putative Pathological Correlates of Neurodegeneration in an Autopsy Series of FTLD-TDP Type C. 2021 Neuroscience Annual Meeting, Chicago, November 2021.
115. Surendhar Reddy Chepyala; Xueyan Liu; Ka Yang; Zhiping Wu; Alex M Breuer; Ji-Hoon Cho; Yuxin Li; Ariana Mancieri; Yun Jiao; **Hui Zhang**; Junmin Peng. JUMPT: Comprehensive protein turnover modeling of in vivo pulse SILAC data by ordinary differential equations. The 69th ASMS Conference on Mass Spectrometry and Allied Topics, Philadelphia, November 2021
116. Keszycki, R., Kawles, A., Juthapan, S., Coventry, C., **Zhang, H.**, Geula, C., Rogalski, E., Weintraub, S., Mesulam, M., and Gefen, T. Neuropsychiatric phenotypes in PPA and bvFTD due to Pick's disease. International Neuropsychological Society (INS) 2021 Annual Meeting, San Diego, February 2021.
117. Eldes F, Sridhar J, **Zhang H**, Kuang A, Coventry C, Moeller S, Maher A, Mesulam M-M, Weintraub S, Rogalski E. Cortical Atrophy in Adults 80+ Years with Superior Memory vs Cognitively Average Middle-Age Adults. OOHBM Annual Meeting, Virtual, June 2020
118. Anuj Desai, Jacob A Burns, Jason Cohen, Lauren Cooley, Adam Weiner, Amanda Vo, Oliver Ko, Irene Helenowski, **Hui Zhang**, Jim C Hu, John S Witte, William J Catalona, Edward M Schaeffer, Shilajit Kundu. Risk of prostate cancer in men with chronic inflammatory conditions. the American Urological Association's 2020 Annual Meeting, Washington DC (held virtually), 2020.
119. Jacob, Saya; Rahbari, Kian; Tegtmeyer, Kyle; Zhao, Jeffrey; Helenowski, Irene; **Zhang, Hui**; Walunas, Theresa; Varga, John; Dematte, Jane; Villafior, Victoria. Progression of lung cancer in patients with co-morbid autoimmune disease. AACR-NIH conference on Cancer, Autoimmunity and Immunology, virtual, March 2020
120. Surendhar Reddy Chepyala, Xueyan Liu, Alex M. Breuer, Zhiping Wu, Ji-Hoon Cho, Ariana Mancieri,

- Yun Jiao, **Hui Zhang**, Junmin Peng. JUMPt: ordinary differential equation-based protein turnover modeling of mass spectrometric data from metabolically labeled animals. 68th ASMS Conference on Mass Spectrometry and Allied Topics, Houston TX, June 2020.
- 121.
122. Ides F, Sridhar J, **Zhang H**, Kuang A, Coventry C, Juthapan S, Maher A, Mesulam M-M, Weintraub S, Rogalski E. Rates of Cortical Atrophy in 80+ Year Old Adults with Superior Memory Compared to Cognitively Average Middle-Age Adults. The OHBM 2020 Annual Meeting, Montreal, June 2020.
123. van Panken, Irene Helenowski, **Hui Zhang**, Annie Darves-Bornoz, James Wren, Mary Kate Keeter, Nelson Bennett, Robert Brannigan, Joshua Halpern. Prevalence of Low Testosterone and Impact on Cardiac Function Among Men Undergoing Cardiotoxic Chemotherapy. The American Urological Association's 2020 Annual Meeting, Washington DC, May 2020.
124. ayla LaRosa, Erin MacArthur, **Hui Zhang**, Fang Wang, Jane Brigden, Alberto Pappo, Matthew Wilson, Valerie Crabtree. Light Therapy to Improve Quality of Life and Mood in Adolescents and Young Adults with Solid Tumors: A Pilot Study. The 10th Biennial Conference on Pediatric Sleep Medicine, Naples FL, November 2019.
125. onika L. Metzger, Christine Mauz-Körholz, Jamie Flerlage, Jörg M. Bartelt, Amy Bilett, John K. Choi, MD, Matthew Ehrhardt, Thomas Georgi, Dirk Hasenclever, Fang Wang, **Hui Zhang**, Sue C. Kaste, Regine Kluge, Dieter Körholz, Lars Kurch, Michael Link, Dietrich Stoevesandt, Melissa Hudson, Matthew Krasin. Safety and Early Response to the First 2 Cycles of Brentuximab Vedotin Substituting Vincristine in the OEPA/COPDac Regimen for High Risk Pediatric Hodgkin Lymphoma (HL). The 15th International Conference on Malignant Lymphoma (15-ICML), Lugano, June 18-22, 2019
126. eanelle S. Ali, Jason M. Ashford, Michelle A. Swain, Lana L. Harder, Bonnie L. Carlson-Green, Jonathan M. Miller, Joanna Wallace, Ryan J. Kaner, Jiahui Xu, **Hui Zhang**, Thomas E Merchant, Amar Gajjar, & Heather M. Conklin. Language Development in Children Treated for Brain Tumors During Infancy: Outcomes from a Prospective, Longitudinal Trial. The 17th American Academy of Clinical Neuropsychology (AACN) Annual Meeting, Chicago, June, 2019.
127. aul B. Koller, Hagop M. Kantarjian, Elias Jabbour, Sherry Pierce, Kathryn Roberts, **Hui Zhang**, Maoxiang Qian, Wenjian Yang, Charles Grenfell Mullighan, Jun J. Yang, Marina Konopleva, Nitin Jain. Presence of GATA3 rs3824662A allele is associated with poor clinical outcomes in adult patients with adult B-ALL. The 2019 American Society Of Clinical Oncology Annual Meeting, Chicago, June 2019.
128. ai, Y., Xu, J., Srivastava, D.K., **Zhang, H**. An R Package for Linear Mediation Analysis with Complex Survey Data. The Symposium on Data Science and Statistics, Bellevue WA, June 2019.
129. eather M Conklin, Jason M Ashford, Kellie N Clark, Karen Martin-Elbahesh, Kristina K Hardy, Victoria W Willard, Thomas E Merchant, Sema Jeha, Fang Wang, **Hui Zhang**. Cognitive Gains following Computerized Cognitive Training Fail to Generalize to Improved Social Skills among Childhood Cancer Survivors. International Neuropsychological Society (INS) 2019 Annual Meeting, Baltimore, May 2019.
130. eather M. Conklin, Jason M. Ashford, Kellie N. Clark, Karen Martin-Elbahesh, Kristina K. Hardy, Victoria W. Willard, Thomas E. Merchant, Sima Jeha, Fang Wang, **Hui Zhang**. Cognitive Gains following Computerized Cognitive Training Fail to Generalize to Improved Social Skills among Childhood Cancer Survivors. The 47th International Neuropsychological Society Annual Meeting, New York City, February 2019.
131. asja A. Schepers, Kathryn Russel, Kristoffer S. Berlin, Fang Wang, **Hui Zang**, & Sean Phipps. Daily mood profiles predict psychosocial adjustment in children with newly diagnosed cancer. The 50th Congress of the International Society of Paediatric Oncology, Kyoto, Japan, November 2018

132.
iu, X., Xu, J., Guy, C., Romero E.B., Green, D., Cheng, C., **Zhang, H.**, A novel statistical tool for analyzing colocalization in super-resolution images. St. Jude 2018 Comprehensive Cancer Center Postdoctoral Symposium - Poster Session, St. Jude Children's Research Hospital, Memphis TN, February 2018
133.
asja A. Schepers, Kathryn Russel, Kristoffer S. Berlin, Fang Wang, **Hui Zang**, & Sean Phipps. Daily mood profiles predict psychosocial adjustment in children with newly diagnosed cancer. SIOP 2018, the 33rd Annual Conference of the Society for Industrial and Organizational Psychology, Philadelphia, April 2018
134.
llen J, Niel K, Guo A, Su Y, **Zhang H**, Anghelescu D. Psychosocial Factors and Psychological Interventions: Implications for Chronic Post-surgical Pain. 2018 American Pain Society Annual Meeting, Anaheim CA, March 2018
135.
achel K. Peterson, Jason M. Ashford, Thomas E. Merchant, Julie A. Bradley, Sarah M. Scott, Fang Wang, **Hui Zhang**, Heather M. Conklin. Predicting Parental Distress among Children Newly Diagnosed with Craniopharyngioma. National Academy of Neuropsychology Annual Conference, Boston, October 2017.
136.
alerie Crabtree, **Hui Zhang**, Jane Brigden, Leigh Ann Christy, Matthew Wilson, and Alberto Pappo. Preliminary Feasibility and Acceptability of Light Therapy to Increase Energy in Adolescents and Young Adults Newly Diagnosed with Solid Tumors. The 49th Congress of the International Society of Paediatric Oncology, Washington DC, October 2017.
137.
ox LE, Schreiber JE, Christoff KA, Palmer SL, Swain M, Mabbott DJ, Bonner MJ, Armstrong CL, Chapieski ML, Knight S, Huang L, **Zhang H**, Gajjar A. Psychological Trajectories Among Survivors of Pediatric Brain Tumors: A Growth Mixture Modeling Approach. The 45th International Neuropsychological Society Annual Meeting, New Orleans, February 2017.
138.
iu X, Winter B, Tang L, Zhang B, **Zhang H**. Comparisons of Different Algorithms and Statistical Packages for Fitting Zero-Inflated Poisson Models for RNA-Seq Counts. St. Jude 2016 Faculty-Postdoctoral Poster Session, St. Jude Children's Research Hospital, Memphis TN, November 2016
139.
amilton JR, Schreiber JE, Palmer SL, Swain M, Chapieski ML, Mabbott DJ, Bonner MJ, Knight S, Armstrong CL, Franks R, Huang L, **Zhang H**, Gajjar A. The impact of family functioning on executive functioning in pediatric medulloblastoma. The 44th International Neuropsychological Society Annual Meeting, Boston, February 2016.
140.
eather M. Conklin, Jason M. Ashford, Lu Huang, **Hui Zhang**, Thomas E. Merchant. Cognitive Performance Before and After Proton Beam Radiation Therapy in Children Recently Treated for Craniopharyngioma. The 44th International Neuropsychological Society Annual Meeting, Boston, February 2016.
141.
ason M. Ashford, Thomas E. Merchant, Lu Huang, **Hui Zhang**, Heather M. Conklin. Parental Distress and Associated Treatment and Neurocognitive Factors among Children Diagnosed with Craniopharyngioma. The 44th International Neuropsychological Society Annual Meeting, Boston, February 2016.
142.
shley S. Fournier-Goodnight, Jason Ashford, Thomas E. Merchant, Lu Huang, **Hui Zhang**, Heather M. Conklin. Predictors of Learning and Memory Performance in Patients Recently Diagnosed with Pediatric Craniopharyngioma. The 44th International Neuropsychological Society Annual Meeting, Boston, February 2016.
143.
rabtree VM, Parris KR, **Zhang H**, Huang L, Graef DM, Phipps S. Sleep and behavioral functioning in

- survivors of childhood hematopoietic stem cell transplant. Sleep 2015, the 29th Annual Meeting of the Associated Professional Sleep Societies, Seattle, June 2015.
144. raef DM, Phipps S, Parris KR, **Zhang H**, Huang L, Crabtree V. Parent-proxy and self-reported sleepiness, fatigue, and quality of life in survivors of childhood hematopoietic stem cell transplant. Sleep 2015, the 29th Annual Meeting of the Associated Professional Sleep Societies, Seattle, June 2015.
 145. ames L. Klosky, Karen Wasilewski-Masker, Wendy Landier, Marcia Leonard, Karen Albritton, Abha A. Gupta, Jackie Casillas, Paul Colte, Lu Huang, **Hui Zhang**, Jessica Simmons, Kathryn Russell, Leslie R. Schover, William H. Kutteh. Sperm Banking in Adolescents Newly Diagnosed with Cancer: Results from the SBANK10 Study. SIOP 2015, the 30th Annual Conference of the Society for Industrial and Organizational Psychology, Philadelphia, April 2015
 146. amilton JR, Schreiber JE, Swain M, Chapieski ML, Mabbott DJ, Bonner MJ, Knight S, Armstrong CL, Franks R, Huang L, **Zhang H**, Gajjar A. Stability of Family Functioning in a Prospective, Longitudinal Study of Pediatric Medulloblastoma. AACN 2015, the 13th Annual American Academy of Clinical Neuropsychology Conference, San Francisco, June 2015
 147. arris KR, Huang L, **Zhang H**, Phipps S. Neurocognitive and Psychosocial Functioning in Long-Term Survivors of Pediatric Stem Cell Transplantation. SPPAC 2015, the 2015 Society of Pediatric Psychology Annual Conference, San Diego, April 2015
 148. rabtree VM, Parris KR, **Zhang H**, Huang L, Graef DM, Phipps S. Sleepiness and Fatigue in Survivors of Childhood Hematopoietic Stem Cell Transplant. SPPAC 2015, the 2015 Society of Pediatric Psychology Annual Conference, San Diego, April 2015
 149. raef DM, Phipps S, Parris KR, **Zhang H**, Huang L, Crabtree V. Parent-proxy and Self-reported Sleepiness, Fatigue, and Quality Of Life in Survivors of Childhood Hematopoietic Stem Cell Transplant. SLEEP 2015, the 29th Anniversary Meeting of the Associated Professional Sleep Societies, Seattle, June 2015
 150. reeti Rao, Lu Huang, **Hui Zhang**, Kathryn Russell, Jessica L. Simmons, James Klosky. Maternal Factors Related to Sperm Banking Outcomes in Adolescent Cancer Patients. The 36th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine, San Antonio, April 2015
 151. chreiber JE, Palmer SL, Mabbott DJ, Swain M, Bonner MJ, Chapieski ML, Huang L, **Zhang H**, Gajjar A. Posterior fossa syndrome and long-term neurocognitive problems among children treated for medulloblastoma on a multi-institutional, prospective study, The International Neuropsychological Society 2015 Annual Meeting, Denver, February 2015
 152. ames L. Klosky, Kathryn M. Russell, **Hui Zhang**, Qinlei Huang, William H. Kutteh, Paul Brazina, Jessica Simmons, and Leslie R. Schover. Adolescent Sperm Banking in North America: Results from the SBANK10 Study, American Society for Reproductive Medicine 2014 Annual Meeting, Honolulu, October, 2014
 153. icholson, J. S., McDermott, M. J., Huang, Q., **Zhang, H.**, & Tyc, V. L. Smoking ban adoptions in the home and car for parents of children under treatment for cancer: The mediating role of self-efficacy, the 48th annual meeting of the Association for Behavioral and Cognitive Therapies, Philadelphia, November, 2014
 154. auren E. Cox, Jason Ashford, Kellie Clark, Karen Martin-Elbahesh, Kristina Hardy, Thomas Merchant, Robert Ogg, Sima Jeha, Lu Huang, **Hui Zhang**, Heather M. Conklin. Feasibility and acceptability for a remotely-administered computerized intervention to mitigate cognitive late effects among childhood cancer survivors, the 42nd Annual Meeting of the International Neuropsychological Society, Seattle, February 2014.

155. Jason Ashford, Kellie Clark, Karen Martin-Elbahesh, Kristina Hardy, Thomas Merchant, Robert Ogg, Sima Jeha, Lu Huang, **Hui Zhang**, Heather M. Conklin. Predicting response to computerized working memory training among childhood cancer survivors, the 42nd Annual Meeting of the International Neuropsychological Society, Seattle, February 2014.
156. Heather M. Conklin, Jason Ashford, Kellie Clark, Karen Martin-Elbahesh, Kristina Hardy, Thomas Merchant, Robert Ogg, Sima Jeha, Lu Huang, **Hui Zhang**. Sustainable benefits following computerized intervention targeting cognitive late effects among childhood cancer survivors: a randomized, single-blind, controlled trial, the 4th Quadrennial Meeting of the World Federation of Neuro-Oncology, San Francisco, November 2013.
157. Heather M. Conklin, Jason M. Ashford, Kellie N. Clark, Karen Martin-Elbahesh, Kristina K. Hardy, Thomas E. Merchant, Robert J. Ogg, Sima Jeha, Shengjie Wu, **Hui Zhang**. Computerized intervention for amelioration of cognitive late effects among childhood cancer survivors, the 2013 ASCO Annual Meeting, Chicago, June 2013
158. Night Sarah, Palmer Shawna, Conklin Heather, Schreiber Jane, Armstrong Carol, Wallace Dana, Bonner Melanie, Swain Michelle, Chapieski Lynn, Mabbott Donald, Boyle Robyn, **Zhang Hui**, Huang, Qinlei, Vicki Anderson, Gajjar Amar. Working memory development following treatment for childhood brain tumor: A 5-year longitudinal study, the 36th Annual Brain Impairment Conference, Hobart, Tasmania, Australia, May 2013
159. Jerlym Porter, Jane Hankins, Banu Aygun, **Hui Zhang**, Kathryn Russell, Winfred Wang. Hydroxyurea Decision-making Determinants in Children and Adolescents with Sickle Cell Disease, the 7th Annual Sickle Cell Disease Research and Educational Symposium and 36th Annual National Sickle Cell Disease Scientific Meeting, Miami, April 2013
160. Yvonne F. Clure, Qinlei Huang, **Hui Zhang**, Heather Conklin, Thomas E. Merchant, Amar Gajjar, Valerie McLaughlin Crabtree. Longitudinal Investigation of Sleep Disturbance in Children with Tumors Involving the Central Nervous System, the 2013 National Conference on Pediatric Psychology, New Orleans, April 2013
161. Sean Phipps, Wing Leung, Qinlei Huang, **Hui Zhang**. Cognitive Outcome Following Pediatric Stem Cell Transplantation: Resolving the Effects, the 2013 American Psychosocial Oncology Society Annual Meeting, Huntington Beach CA, February 2013
162. Sean Phipps, Alanna Long, Qinlei Huang, **Hui Zhang**. Trauma and Psychological Growth in Children with Cancer: Are Childhood Cancer Survivors Suffering or Thriving? the 2013 American Psychosocial Oncology Society Annual Meeting, Huntington Beach CA, February 2013
163. Schreiber JE, Palmer SL, Chen S, **Zhang H**, Swain M, Chapieski ML, Bonner MJ, Mabbott DJ, Armstrong CL, Knight S, Boyle R, Gajjar A. Change in Academic Skills Following Treatment for an Embryonal Tumor, the International Neuropsychology Society 41st Annual Meeting, Waikoloa Hawaii, Feb 2013
164. Valerie M. Crabtree, Shawna Palmer, **Hui Zhang**, Qinlei Huang, Amanda Rach, Marie Kyle, Amar Gajjar. Longitudinal Sleep Disturbance Symptoms in Children with Embryonal Tumors, SLEEP 2012, the 26th Anniversary Meeting of the Associated Professional Sleep Societies, Boston, June 2012
165. Lisa M. Ingerski, Megan L. Wilkins, Amanda Rach, Kellie Clark, Ronald Dallas, **Hui Zhang**. Placebo Pill Trial Use in Youth with Behaviorally-Acquired HIV Initiating HAART, the 33rd Annual Meetings & Scientific Sessions of Society of Behavioral Medicine, New Orleans, April 2012
166. Sean Phipps, Alanna Long, Qinlei Huang, **Hui Zhang**. Focusing Effects in Assessing the Impact of

Childhood Cancer, the 33rd Annual Meetings & Scientific Sessions of Society of Behavioral Medicine, New Orleans, April 2012

167.

Bethany L. Schultz, Si Chen, Jody Nicholson, Qinlei Huang, **Hui Zhang**, Vida L. Tyc. Health Outcomes Related to Secondhand Smoke Exposure Among Children with Cancer, the 33rd Annual Meetings & Scientific Sessions of Society of Behavioral Medicine, New Orleans, April 2012

ACADEMIC SERVICES:

- | | |
|--------------|---|
| 2017-present | Associate Editor, <i>Journal of Statistical Computation and Simulation</i> |
| 2018-present | Editorial Board Member, <i>Journal of Pancreatology, Cancer Innovation</i> |
| 2012-2019 | Editorial Board of <i>International Journal of Statistics and Probability</i> |
| 2022-present | Editorial Board of <i>Statistical Genetics and Methodology, Frontiers in Genetics</i> |
| 2022-present | Editorial Board of <i>Medicina</i> |
| 2022-present | Editorial Board of <i>Nature Medicine</i> |
| 2014-2017 | Editorial Board for <i>Cancer Bioinformatics</i> |
| 2008-Present | Referee for the following journals
<i>Artificial Intelligence In Medicine, Biotatistics, Statistics in Medicine, Statistical Modeling, Psychometrika, Journal of Applied Statistics, Statistics and Probability Letters, Applied Mathematics, Mathematics and Statistics, Journal of Statistical Computation and Simulation, Pharmaceutical Statistics, Journal of Statistics in Biopharmaceutical Research, Science Journal of Applied Mathematics and Statistics American Journal of Epidemiology, Brain Research, BMJ Open, Clinical Trials, Contemporary Clinical Trials Communications, Device, eClinicalMedicine, Health Services and Outcomes Research Methodology, JAMA, Journal of Clinical Medicine, Journal of Clinical Oncology, Journal of Pediatric Rehabilitation Medicine, Med, Nature Communications, Nature Medicine, New England Journal of Medicine, Pediatrics, Plos One, Psycho-Oncology, Scientific Reports, the Lancet Psychiatry, the Lancet Infectious Disease</i> |
| 2010, 2011 | Grant reviewer for the Netherlands Organisation for Health Research and Development, invited by the Dutch Ministry of Health, Welfare and Sports |
| 2011, 2012 | Clinical Peer Review Panel for grant applications of Congressionally Directed Medical Research Programs (CDMRP) |
| 2018 | Clinical Peer Review Panel for grant applications of Congressionally Directed Medical Research Programs (CDMRP) |
| 2019 | Clinical Peer Review Panel for grant applications of Congressionally Directed Medical Research Programs (CDMRP) 4 times for different panels |
| 2020 | Clinical Peer Review Panel for grant applications of Congressionally Directed Medical Research Programs (CDMRP) |
| 2018 | Grant reviewer for the National Institutes of Health |
| 2009 | ENAR Spring Meeting Session Chair for Session 36: Toxicology/Dose-response Models |
| 2011 | ENAR Spring Meeting Session Chair for Session 132: Generalized Linear Models |
| 2013 | The 7th International Conference on Bioinformatics and Biomedical Engineering (iCBBE2013) Session Chair |
| 2014 | Invited referee for SJCRH 2014 Postdoctoral Fellows Professional Development Week poster competition |

TEACHING EXPERIENCES:

- Northwestern University, Illinois
 Instructor, Introduction to Statistical Learning, 2020-2025
- Northwestern University, Illinois
 Instructor, Introduction to Statistics and Data Science, 2021

University of Memphis, Tennessee
Instructor, Statistical Learning, 2017

St. Jude Children's Research Hospital, Tennessee
Instructor, Analysis of Repeated Measures, 2011

University of Rochester, New York
Teaching Assistant, Introduction to Biostatistics, 2006
Teaching Assistant, Applied Linear Regression, 2007

PATENT:

Memory-erasing protein and its application, Patent No. CN01113151.9