



Zihuai He

Associate Professor (Research) of Neurology and Neurological Sciences (Neurology Research), of Medicine (Computational Medicine) and, by courtesy, of Biomedical Data Science

 Curriculum Vitae available Online

Bio

BIO

Dr. He received his PhD from the University of Michigan in 2016. Following a postdoctoral training in biostatistics at Columbia University, he joined Stanford University in 2018. His research is concentrated in the area of statistical genomics and integrative analysis of omics data, with the aim of developing novel statistical and computational methodologies for the identification and interpretation of complex biological pathways involved in human diseases and aging. His methodology interest includes high-dimensional data analysis, machine learning algorithms and explainable AI.

ACADEMIC APPOINTMENTS

- Associate Professor (Research), Neurology and Neurological Sciences
- Associate Professor (Research), Computational Medicine
- Associate Professor (Research) (By courtesy), Department of Biomedical Data Science
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Rackham Pre-doctoral Fellowship Award, University of Michigan (2015)
- Rackham Conference Travel Grant, University of Michigan (2013 - 2015)
- Best Performance on the Qualifying Exam, University of Michigan (2013)

PROFESSIONAL EDUCATION

- Ph.D., University of Michigan , Biostatistics (2016)
- B.S., Tsinghua University , Mathematics and Physics (2010)

LINKS

- Quantitative Science Unit: <https://med.stanford.edu/qsu.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Statistical genetics and other omics to study Alzheimer's disease and aging.

Teaching

COURSES

2025-26

- Workshop in Biomedical Data Science: BMDS 280A, STATS 260A (Aut)

2024-25

- Workshop in Biostatistics: BIODS 260A, STATS 260A (Aut)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Runbing Zheng

Doctoral Dissertation Advisor (AC)

Julie F. Wang

Publications

PUBLICATIONS

- **Second-order group knockoffs with applications to GWAS.** *Bioinformatics (Oxford, England)*
Chu, B. B., Gu, J., Chen, Z., Morrison, T., Candès, E., He, Z., Sabatti, C.
2024
- **Summary statistics knockoffs inference with family-wise error rate control.** *Biometrics*
Yu, C. X., Gu, J., Chen, Z., He, Z.
2024; 80 (3)
- **In silico identification of putative causal genetic variants.** *bioRxiv : the preprint server for biology*
He, Z., Chu, B., Yang, J., Gu, J., Chen, Z., Liu, L., Morrison, T., Belloy, M. E., Qi, X., Hejazi, N., Mathur, M., Le Guen, Y., Tang, et al
2024
- **Controlled Variable Selection from Summary Statistics Only? A Solution via GhostKnockoffs and Penalized Regression.** *ArXiv*
Chen, Z., He, Z., Chu, B. B., Gu, J., Morrison, T., Sabatti, C., Candès, E.
2024
- **Organ aging signatures in the plasma proteome track health and disease.** *Nature*
Oh, H. S., Rutledge, J., Nachun, D., Pálovics, R., Abiose, O., Moran-Losada, P., Channappa, D., Urey, D. Y., Kim, K., Sung, Y. J., Wang, L., Timsina, J., Western, et al
2023; 624 (7990): 164-172
- **Improving genetic risk prediction across diverse population by disentangling ancestry representations.** *Communications biology*
Gyawali, P. K., Le Guen, Y., Liu, X., Belloy, M. E., Tang, H., Zou, J., He, Z.
2023; 6 (1): 964
- **Association of African Ancestry-Specific APOE Missense Variant R145C With Risk of Alzheimer Disease.** *JAMA*
Le Guen, Y., Raulin, A., Logue, M. W., Sherva, R., Belloy, M. E., Eger, S. J., Chen, A., Kennedy, G., Kuchenbecker, L., O'Leary, J. P., Zhang, R., Merritt, V. C., Panizzon, et al
2023; 329 (7): 551-560
- **BIGKnock: fine-mapping gene-based associations via knockoff analysis of biobank-scale data.** *Genome biology*
Ma, S., Wang, C., Khan, A., Liu, L., Dagleish, J., Kiryluk, K., He, Z., Ionita-Laza, I.
2023; 24 (1): 24
- **GhostKnockoff inference empowers identification of putative causal variants in genome-wide association studies.** *Nature communications*
He, Z., Liu, L., Belloy, M. E., Le Guen, Y., Sossin, A., Liu, X., Qi, X., Ma, S., Gyawali, P. K., Wyss-Coray, T., Tang, H., Sabatti, C., Candès, et al

2022; 13 (1): 7209

- **Deep learning-assisted genome-wide characterization of massively parallel reporter assays.** *Nucleic acids research*
Lu, F., Sossin, A., Abell, N., Montgomery, S. B., He, Z.
2022
- **Deep neural networks with controlled variable selection for the identification of putative causal genetic variants.** *Nature machine intelligence*
Kassani, P. H., Lu, F., Guen, Y. L., Belloy, M. E., He, Z.
2022; 4 (9): 761-771
- **Multiple causal variants underlie genetic associations in humans.** *Science (New York, N.Y.)*
Abell, N. S., DeGorter, M. K., Gloudemans, M. J., Greenwald, E., Smith, K. S., He, Z., Montgomery, S. B.
2022; 375 (6586): 1247-1254
- **Quantitative disease risk scores from EHR with applications to clinical risk stratification and genetic studies.** *NPJ digital medicine*
Xu, D., Wang, C., Khan, A., Shang, N., He, Z., Gordon, A., Kullo, I. J., Murphy, S., Ni, Y., Wei, W., Gharavi, A., Kiryluk, K., Weng, et al
2021; 4 (1): 116
- **Identification of putative causal loci in whole-genome sequencing data via knockoff statistics.** *Nature communications*
He, Z., Liu, L., Wang, C., Le Guen, Y., Lee, J., Gogarten, S., Lu, F., Montgomery, S., Tang, H., Silverman, E. K., Cho, M. H., Greicius, M., Ionita-Laza, et al
2021; 12 (1): 3152
- **Genome-wide analysis of common and rare variants via multiple knockoffs at biobank scale, with an application to Alzheimer disease genetics.** *American journal of human genetics*
He, Z., Le Guen, Y., Liu, L., Lee, J., Ma, S., Yang, A. C., Liu, X., Rutledge, J., Losada, P. M., Song, B., Belloy, M. E., Butler, R. R., Longo, et al
2021
- **Powerful gene-based testing by integrating long-range chromatin interactions and knockoff genotypes.** *Proceedings of the National Academy of Sciences of the United States of America*
Ma, S., Dagleish, J., Lee, J., Wang, C., Liu, L., Gill, R., Buxbaum, J. D., Chung, W. K., Aschard, H., Silverman, E. K., Cho, M. H., He, Z., Ionita-Laza, et al
2021; 118 (47)
- **A genome-wide scan statistic framework for whole-genome sequence data analysis.** *Nature communications*
He, Z., Xu, B., Buxbaum, J., Ionita-Laza, I.
2019; 10 (1): 3018
- **A semi-supervised approach for predicting cell-type specific functional consequences of non-coding variation using MPRA.** *Nature communications*
He, Z. n., Liu, L. n., Wang, K. n., Ionita-Laza, I. n.
2018; 9 (1): 5199
- **Unified Sequence-Based Association Tests Allowing for Multiple Functional Annotations and Meta-analysis of Noncoding Variation in Metabochip Data** *AMERICAN JOURNAL OF HUMAN GENETICS*
He, Z., Xu, B., Lee, S., Ionita-Laza, I.
2017; 101 (3): 340–52
- **Set-Based Tests for the Gene-Environment Interaction in Longitudinal Studies** *JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION*
He, Z., Zhang, M., Lee, S., Smith, J. A., Kardia, S. L. R., Roux, V., Mukherjee, B.
2017; 112 (519): 966–78
- **Set-Based Tests for Genetic Association in Longitudinal Studies** *BIOMETRICS*
He, Z., Zhang, M., Lee, S., Smith, J. A., Guo, X., Palmas, W., Kardia, S. L. R., Roux, A., Mukherjee, B.
2015; 71 (3): 606–15
- **Modeling and Testing for Joint Association Using a Genetic Random Field Model** *BIOMETRICS*
He, Z., Zhang, M., Zhan, X., Lu, Q.
2014; 70 (3): 471–79
- **Basic Science and Pathogenesis.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*

- Reid, D. M., Cook, N., Yang, C., Song, S., Apio, C., Western, D., Guen, Y. L., Stewart, I., Young, C. B., Mormino, E. C., Napolioni, V., He, Z., Altmann, et al
2025; 21 Suppl 1 (Suppl 1): e099094
- **Public Health.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Lu, O., Trelle, A. N., Young, C. B., Mormino, E. C., Wagner, A. D., He, Z., Carr, V. A., Sha, S. J., Vossler, H., Romero, A., Park, J., Skylar-Scott, I. A.
2025; 21 Suppl 6 (Suppl 6): e107011
 - **Developing Topics.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Park, J., He, Z., Greicius, M. D.
2025; 21 Suppl 7 (Suppl 7): e108637
 - **Integrative Genetic, Proteogenomic, and Multi-omics Analyses Reveal Sex-Biased Causal Genes and Drug Targets in Alzheimer's Disease.** *medRxiv : the preprint server for health sciences*
Cook, N., Yang, C., Zeng, Y., Sivasankaran, S. K., Song, S., Talozzi, L., Western, D., Yang, C., Liu, Y., Le Guen, Y., Stewart, I., Young, C., Mormino, et al
2025
 - **Long-read genome sequencing and multi-omics in aging and neurodegeneration.** *medRxiv : the preprint server for health sciences*
Jensen, T. D., Le Guen, Y., Talozzi, L., Yang, S., Gorzynski, J., Peña-Tauber, A., Stewart, I., Ferrasse, A., Nachun, D., Arriaga, M. T., Lee, J., Pulgrossi, R. C., Park, et al
2025
 - **Socioeconomic Factors Associated With Migraine Medication Prescription at a Tertiary Headache Center: A Retrospective Cohort Analysis.** *Neurology. Clinical practice*
Nandyala, A. S., Tan, K., Africk, B., Graber-Naidich, A., Zhang, N., He, Z., Moskatel, L. S.
2025; 15 (5): e200517
 - **Distilling Direct Effects via Conditional Differential Gene Expression Analysis.** *bioRxiv : the preprint server for biology*
Gu, J., Skelton, A., Staley, J., Popson, P., Peng, L., Song, X., Knowles, J., He, Z.
2025
 - **A retrospective cohort study to evaluate the effectiveness and safety profile of occipital nerve blocks in the treatment of migraine during pregnancy.** *Headache*
Smirnoff, L., Moskatel, L., Shaw, B., He, Z., Peretz, A.
2025
 - **It's a wrap: deriving distinct discoveries with FDR control after a GWAS pipeline.** *bioRxiv : the preprint server for biology*
Chu, B. B., He, Z., Sabatti, C.
2025
 - **Uncovering Heterogeneous Effects via Localized Feature Selection.** *bioRxiv : the preprint server for biology*
Liu, X., Gu, J., Chen, Z., Chu, B., Liu, L., Morrison, T., Butler, R. R., Edelson, J., Li, J., Longo, F. M., Tang, H., Ionita-Laza, I., Sabatti, et al
2025
 - **Robust inference with GhostKnockoffs in genome-wide association studies.** *Research square*
Qi, X., Belloy, M. E., Gu, J., Liu, X., Tang, H., He, Z.
2025
 - **Repetitive Transcranial Magnetic Stimulation Modulates Brain Connectivity in Children with Self-limited Epilepsy with Centrotemporal Spikes.** *Brain stimulation*
She, X., Qi, W., Nix, K. C., Menchaca, M., Cline, C. C., Wu, W., He, Z., Baumer, F. M.
2025
 - **Indications for continuous electroencephalography and frequency of electrographic seizure detection in a pediatric and neonatal cardiovascular intensive care unit.** *Epilepsia*
Segal, J. B., Yang, J. K., Silverman, A., Darji, H., He, Z., Campen, C. J.
2025
 - **Public Health.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Lu, O., Mormino, E., He, Z., Carr, V. A., Trelle, A. N., Young, C. B., Romero, A., Vossler, H., Park, J., Skylar-Scott, I. A.

2024; 20 Suppl 7: e084160

- **Age-associated proteins explain the role of medial temporal lobe networks in Alzheimer's disease.** *GeroScience*
Turnbull, A., Kim, Y., Zhang, K., Jiang, X., He, Z., Henderson, V. W., Lin, F. V.
2024
- **Education Research: Sustained Implementation of Quality Improvement Practices Is Observed in Early Career Physicians Following a Neurology Resident QI Curriculum.** *Neurology. Education*
Xiong, K., Miller-Kuhlmann, R. K., Scott, B. J., He, Z., Dujari, S., Gold, C., Kvam, K.
2024; 3 (2): e200137
- **Temporal tau asymmetry spectrum influences divergent behavior and language patterns in Alzheimer's disease.** *Brain, behavior, and immunity*
Younes, K., Smith, V., Johns, E., Carlson, M. L., Winer, J., He, Z., Henderson, V. W., Greicius, M. D., Young, C. B., Mormino, E. C.
2024
- **Stability of transcranial magnetic stimulation electroencephalogram evoked potentials in pediatric epilepsy.** *Scientific reports*
She, X., Nix, K. C., Cline, C. C., Qi, W., Tugin, S., He, Z., Baumer, F. M.
2024; 14 (1): 9045
- **Long-term persistence to OnabotulinumtoxinA to prevent chronic migraine: Results from 11 years of patient data from a tertiary headache center.** *Pain medicine (Malden, Mass.)*
Moskatel, L. S., Graber-Naidich, A., He, Z., Zhang, N.
2024
- **Impaired 24-h activity patterns are associated with an increased risk of Alzheimer's disease, Parkinson's disease, and cognitive decline.** *Alzheimer's research & therapy*
Winer, J. R., Lok, R., Weed, L., He, Z., Poston, K. L., Mormino, E. C., Zeitzer, J. M.
2024; 16 (1): 35
- **Post-translational modifications linked to preclinical Alzheimer's disease-related pathological and cognitive changes.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Abiose, O., Rutledge, J., Moran-Losada, P., Belloy, M. E., Wilson, E. N., He, Z., Trelle, A. N., Channappa, D., Romero, A., Park, J., Yutsis, M. V., Sha, S. J., Andreasson, et al
2023
- **Assessing the Assisted Six-Minute Cycling Test as a Measure of Endurance in Non-Ambulatory Patients with Spinal Muscular Atrophy (SMA).** *Journal of clinical medicine*
Tang, W. J., Gu, B., Montalvo, S., Dunaway Young, S., Parker, D. M., de Monts, C., Ataide, P., Ni Ghiollagain, N., Wheeler, M. T., Tesi Rocha, C., Christle, J. W., He, Z., Day, et al
2023; 12 (24)
- **The introduction of the CGRP monoclonal antibodies and their effect on the prescription patterns of chronic migraine preventive medications in a tertiary headache center: A retrospective, observational analysis.** *Headache*
Moskatel, L. S., Graber-Naidich, A., He, Z., Zhang, N.
2023
- **Loop diuretics association with Alzheimer's disease risk.** *Frontiers in aging*
Graber-Naidich, A., Lee, J., Younes, K., Greicius, M. D., Le Guen, Y., He, Z.
2023; 4: 1211571
- **Multiancestry analysis of the HLA locus in Alzheimer's and Parkinson's diseases uncovers a shared adaptive immune response mediated by HLA-DRB1*04 subtypes.** *Proceedings of the National Academy of Sciences of the United States of America*
Le Guen, Y., Luo, G., Ambati, A., Damotte, V., Jansen, I., Yu, E., Nicolas, A., de Rojas, I., Peixoto Leal, T., Miyashita, A., Bellenguez, C., Lian, M. M., Parveen, et al
2023; 120 (36): e2302720120
- **Real world evidence of changes in CGRP monoclonal antibody and onabotulinumtoxinA prescription practices at the start of the COVID-19 pandemic: An observational, retrospective study.** *Headache*
Moskatel, L. S., Graber-Naidich, A., He, Z., Zhang, N.
2023

- **Major Adverse Dystrophinopathy Events (MADE) Score as Marker of Cumulative Morbidity and Risk for Mortality in Boys with Duchenne Muscular Dystrophy.** *Progress in pediatric cardiology*
Kaufman, B. D., Garcia, A., He, Z., Tesi-Rocha, C., Buu, M., Rosenthal, D., Gordish-Dressman, H., Almond, C. S., Duong, T.
2023; 69
- **Peripheral T-Cells, B-Cells, and Monocytes from Multiple Sclerosis Patients Supplemented with High-Dose Vitamin D Show Distinct Changes in Gene Expression Profiles.** *Nutrients*
Kim, D., Witt, E. E., Schubert, S., Sotirchos, E., Bhargava, P., Mowry, E. M., Sachs, K., Bilen, B., Steinman, L., Awani, A., He, Z., Calabresi, P. A., Van Haren, et al
2022; 14 (22)
- **Connectivity increases during spikes and spike-free periods in self-limited epilepsy with centrotemporal spikes.** *Clinical neurophysiology : official journal of the International Federation of Clinical Neurophysiology*
Goad, B. S., Lee-Messer, C., He, Z., Porter, B. E., Baumer, F. M.
2022
- **A Fast and Robust Strategy to Remove Variant-Level Artifacts in Alzheimer Disease Sequencing Project Data.** *Neurology. Genetics*
Belloy, M. E., Le Guen, Y., Eger, S. J., Napolioni, V., Greicius, M. D., He, Z.
2022; 8 (5): e200012
- **KnockoffTrio: A knockoff framework for the identification of putative causal variants in genome-wide association studies with trio design.** *American journal of human genetics*
Yang, Y., Wang, C., Liu, L., Buxbaum, J., He, Z., Ionita-Laza, I.
2022
- **Molecular signatures underlying neurofibrillary tangle susceptibility in Alzheimer's disease.** *Neuron*
Otero-Garcia, M., Mahajani, S. U., Wakhloo, D., Tang, W., Xue, Y., Morabito, S., Pan, J., Oberhauser, J., Madira, A. E., Shakouri, T., Deng, Y., Allison, T., He, et al
2022
- **Pediatric Functional Neurological Disorder: Demographic and Clinical Factors Impacting Care** *JOURNAL OF CHILD NEUROLOGY*
Pal, R., Romero, E., He, Z., Stevenson, T., Campen, C.
2022: 8830738221113899
- **Association of Rare APOE Missense Variants V236E and R251G With Risk of Alzheimer Disease.** *JAMA neurology*
Le Guen, Y., Belloy, M. E., Grenier-Boley, B., de Rojas, I., Castillo-Morales, A., Jansen, I., Nicolas, A., Bellenguez, C., Dalmasso, C., Küçükali, F., Eger, S. J., Rasmussen, K. L., Thomassen, et al
2022
- **Inequities in therapy for infantile spasms: a call to action.** *Annals of neurology*
Baumer, F. M., Mytinger, J. R., Neville, K., Briscoe Abath, C., Gutierrez, C. A., Numis, A. L., Harini, C., He, Z., Hussain, S. A., Berg, A. T., Chu, C. J., Gaillard, W. D., Loddenkemper, et al
2022
- **Spinal cord injury: a study protocol for a systematic review and meta-analysis of microRNA alterations.** *Systematic reviews*
Tigchelaar, S., He, Z., Tharin, S.
2022; 11 (1): 61
- **Precision Care in Cardiac Arrest: ICECAP (PRECICECAP) Study Protocol and Informatics Approach.** *Neurocritical care*
Elmer, J., He, Z., May, T., Osborn, E., Moberg, R., Kemp, S., Stover, J., Moyer, E., Geocadin, R. G., Hirsch, K. G., PRECICECAP Study Team
2022
- **Challenges at the APOE locus: a robust quality control approach for accurate APOE genotyping.** *Alzheimer's research & therapy*
Belloy, M. E., Eger, S. J., Le Guen, Y., Damotte, V., Ahmad, S., Ikram, M. A., Ramirez, A., Tsolaki, A. C., Rossi, G., Jansen, I. E., de Rojas, I., Parveen, K., Sleegers, et al
2022; 14 (1): 22
- **Sex-heterogenous effect on Alzheimer's disease risk at the BIN1 locus.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Guen, Y. L., Eger, S. J., Belloy, M. E., Kennedy, G., He, Z., Napolioni, V., Greicius, M. D.
1800; 17 Suppl 3: e053616

- **APOE*4-stratified genome-wide association study of Alzheimer's disease in over 350,000 individuals.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Belloy, M. E., Eger, S. J., Guen, Y. L., Kennedy, G., He, Z., Napolioni, V., Greicius, M. D.
1800; 17 Suppl 3: e055905
- **A Text-Based Intervention to Promote Literacy: An RCT.** *Pediatrics*
Chamberlain, L. J., Bruce, J., De La Cruz, M., Huffman, L., Steinberg, J. R., Bruguera, R., Peterson, J. W., Gardner, R. M., He, Z., Ordaz, Y., Connelly, E., Loeb, S.
2021
- **Multitrait GWAS to connect disease variants and biological mechanisms.** *PLoS genetics*
Julienne, H., Laville, V., McCaw, Z. R., He, Z., Guillemot, V., Lasry, C., Ziyatdinov, A., Nerin, C., Vaysse, A., Lechat, P., Menager, H., Le Goff, W., Dube, et al
2021; 17 (8): e1009713
- **Do Steroids Matter? A Retrospective Review of Premedication for Taxane Chemotherapy and Hypersensitivity Reactions.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Lansinger, O. M., Biedermann, S., He, Z., Colevas, A. D.
2021: JCO2101200
- **Advances and challenges in quantitative delineation of the genetic architecture of complex traits.** *Quantitative biology (Beijing, China)*
Tang, H., He, Z.
2021; 9 (2): 168-184
- **Advances and challenges in quantitative delineation of the genetic architecture of complex traits** *QUANTITATIVE BIOLOGY*
Tang, H., He, Z.
2021; 9 (2): 168-184
- **A novel age-informed approach for genetic association analysis in Alzheimer's disease.** *Alzheimer's research & therapy*
Le Guen, Y., Belloy, M. E., Napolioni, V., Eger, S. J., Kennedy, G., Tao, R., He, Z., Greicius, M. D., Alzheimers Disease Neuroimaging Initiative
2021; 13 (1): 72
- **Administration of Dexamethasone for Bacterial Meningitis: An Unreliable Quality Measure.** *The Neurohospitalist*
Dujari, S., Gummidipundi, S., He, Z., Gold, C. A.
2021; 11 (2): 101-106
- **KLVS heterozygosity reduces brain amyloid in asymptomatic at-risk APOE4 carriers.** *Neurobiology of aging*
Belloy, M. E., Eger, S. J., Le Guen, Y., Napolioni, V., Deters, K. D., Yang, H., Scelsi, M. A., Porter, T., James, S., Wong, A., Schott, J. M., Sperling, R. A., Laws, et al
2021; 101: 123-29
- **Treatment Practices and Outcomes in Continuous Spike and Wave During Slow Wave Sleep (CSWS): A Multicenter Collaboration.** *The Journal of pediatrics*
Baumer, F. M., McNamara, N. A., Fine, A. L., Pestana-Knight, E. n., Shellhaas, R. A., He, Z. n., Arndt, D. H., Gaillard, W. D., Kelley, S. A., Nagan, M. n., Ostendorf, A. P., Singhal, N. S., Speltz, et al
2021
- **Generalizable Sample-Efficient Siamese Autoencoder for Tinnitus Diagnosis in Listeners With Subjective Tinnitus** *IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING*
Liu, Z., Yao, L., Wang, X., Monaghan, J. J. M., Schaette, R., He, Z., McAlpine, D.
2021; 29: 1452-1461
- **An evolutionarily acquired microRNA shapes development of mammalian cortical projections.** *Proceedings of the National Academy of Sciences of the United States of America*
Diaz, J. L., Siththanandan, V. B., Lu, V., Gonzalez-Nava, N., Pasquina, L., MacDonald, J. L., Woodworth, M. B., Ozkan, A., Nair, R., He, Z., Sahni, V., Sarnow, P., Palmer, et al
2020
- **Administration of Dexamethasone for Bacterial Meningitis: An Unreliable Quality Measure** *NEUROHOSPITALIST*
Dujari, S., Gummidipundi, S., He, Z., Gold, C. A.
2020

- **Benchmarking Performance on Administration of Dexamethasone for Bacterial Meningitis**
Dujari, S., Gummidipundi, S., He, Z., Gold, C.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Interaction analysis under misspecification of main effects: Some common mistakes and simple solutions.** *Statistics in medicine*
Zhang, M., Yu, Y., Wang, S., Salvatore, M., G Fritsche, L., He, Z., Mukherjee, B.
2020
- **FUN-LDA: A Latent Dirichlet Allocation Model for Predicting Tissue-Specific Functional Effects of Noncoding Variation: Methods and Applications** *AMERICAN JOURNAL OF HUMAN GENETICS*
Backenroth, D., He, Z., Kiryluk, K., Boeva, V., Pethukova, L., Khurana, E., Christiano, A., Buxbaum, J. D., Ionita-Laza, I.
2018; 102 (5): 920–42
- **Detecting Rare Mutations with Heterogeneous Effects Using a Family-Based Genetic Random Field Method.** *Genetics*
Li, M. n., He, Z. n., Tong, X. n., Witte, J. S., Lu, Q. n.
2018; 210 (2): 463–76
- **Rare-variant association tests in longitudinal studies, with an application to the Multi-Ethnic Study of Atherosclerosis (MESA)** *GENETIC EPIDEMIOLOGY*
He, Z., Lee, S., Zhang, M., Smith, J. A., Guo, X., Palmas, W., Kardia, S. L. R., Ionita-Laza, I., Mukherjee, B.
2017; 41 (8): 801–10
- **Interaction between Social/Psychosocial Factors and Genetic Variants on Body Mass Index: A Gene-Environment Interaction Analysis in a Longitudinal Setting** *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*
Zhao, W., Ware, E. B., He, Z., Kardia, S. L. R., Faul, J. D., Smith, J. A.
2017; 14 (10)
- **Testing Allele Transmission of an SNP Set Using a Family-Based Generalized Genetic Random Field Method** *GENETIC EPIDEMIOLOGY*
Li, M., Li, J., He, Z., Lu, Q., Witte, J. S., Macleod, S. L., Hobbs, C. A., Cleves, M. A., Natl Birth Defects Prevention Stud
2016; 40 (4): 341–51
- **Risk Prediction Modeling of Sequencing Data Using a Forward Random Field Method** *SCIENTIFIC REPORTS*
Wen, Y., He, Z., Li, M., Lu, Q.
2016; 6: 21120
- **Association between Stress Response Genes and Features of Diurnal Cortisol Curves in the Multi-Ethnic Study of Atherosclerosis: A New Multi-Phenotype Approach for Gene-Based Association Tests** *PLOS ONE*
He, Z., Payne, E. K., Mukherjee, B., Lee, S., Smith, J. A., Ware, E. B., Sanchez, B. N., Seeman, T. E., Kardia, S. L. R., Roux, A.
2015; 10 (5): e0126637
- **A Powerful Nonparametric Statistical Framework for Family-Based Association Analyses** *GENETICS*
Li, M., He, Z., Schaid, D. J., Cleves, M. A., Nick, T. G., Lu, Q.
2015; 200 (1): 69–U140
- **A Weighted U-Statistic for Genetic Association Analyses of Sequencing Data** *GENETIC EPIDEMIOLOGY*
Wei, C., Li, M., He, Z., Vsevolozhkaya, O., Schaid, D. J., Lu, Q.
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