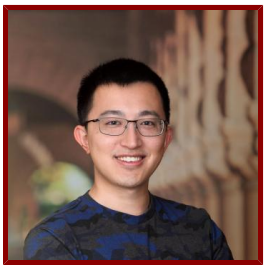
Stanford



Zihuai He

Assistant Professor (Research) of Neurology and Neurological Sciences (Neurology Research), of Medicine (BMIR) 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 as an assistant professor of neurology and of medicine in 2018. His research is concentrated in the area of statistical genetics 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, particularly neurological disorders. His methodology interest includes high-dimensional data analysis, correlated (longitudinal, familial) data analysis and machine learning algorithms.

ACADEMIC APPOINTMENTS

- Assistant Professor (Research), Neurology
- Assistant Professor (Research), Medicine - Biomedical Informatics Research
- Assistant 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.

Teaching

COURSES

2024-25

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

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Amelia Farinas

Postdoctoral Faculty Sponsor

Jiaqi Gu, Xiaoxia Liu

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.
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- **Controlled Variable Selection from Summary Statistics Only? A Solution via GhostKnockoffs and Penalized Regression.** *ArXiv*
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- **Organ aging signatures in the plasma proteome track health and disease.** *Nature*
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  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
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- **GhostKnockoff inference empowers identification of putative causal variants in genome-wide association studies.** *Nature communications*
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  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.
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- **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.
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- **Quantitative disease risk scores from EHR with applications to clinical risk stratification and genetic studies.** *NPJ digital medicine*
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  Ma, S., Dalgleish, 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
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  He, Z. n., Liu, L. n., Wang, K. n., Ionita-Laza, I. n.
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- **Modeling and Testing for Joint Association Using a Genetic Random Field Model** *BIOMETRICS*
  He, Z., Zhang, M., Zhan, X., Lu, Q.
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- **Age-associated proteins explain the role of medial temporal lobe networks in Alzheimer's disease.** *GeroScience*
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- **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*
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- **Challenges at the APOE locus: a robust quality control approach for accurate APOE genotyping.** *Alzheimer's research & therapy*
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- **A novel age-informed approach for genetic association analysis in Alzheimer's disease.** *Alzheimer's research & therapy*
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