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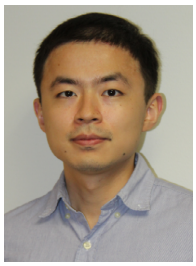

Area of Expertise

My major research interest is the methodological development of statistical genetics, including detecting gene – environment interaction, controlling for population stratification in genome-wide association studies and developing powerful genetic association tests.
I am actively seeking opportunities for collaboration with scientific and clinical investigators in biostatistics or statistical genetics. I have been involved in various genetic studies for human complex diseases, such as heart disease, Alzheimer's disease, fatty liver disease, and Fuch's endothelial corneal dystrophy.

Qualifications

BS in Mathematics , Beijing Institute of Technology

MS in Statistics, Southern Methodist University

PhD in Biostatistics, Southern Methodist University

Publications

Environment-wide association study on childhood obesity in the U.S.
Uche, U. I., Suzuki, S., Fulda, K. G. & Zhou, Z., Dec 2020, In : Environmental Research. 191, 110109.

A comparison of Bayesian to maximum likelihood estimation for latent growth models in the presence of a binary outcome
Kim, S. Y., Huh, D., Zhou, Z. & Mun, E. Y., 1 Sep 2020, In : International Journal of Behavioral Development. 44, 5, p. 447-457 11 p.

A novel syndrome with short stature, mandibular hypoplasia, and osteoporosis may be associated with a PRRT3 variant
Garg, A., El-Shanti, H., Xing, C., Zhou, Z., Abujbara, M., Al-Rashed, K., El-Khateeb, M., Ajlouni, K. & Agarwal, A. K., 1 Aug 2020, In : Journal of the Endocrine Society. 4, 8, bvaa088.

Two-stage Bayesian GWAS of 9576 individuals identifies SNP regions that are targeted by miRNAs inversely expressed in Alzheimer's and cancer
for the Alzheimer's Disease Neuroimaging Initiative, Breast and Prostate Cancer Cohort Consortium, and Alzheimer's Disease Genetics Consortium, 1 Jan 2020, In : Alzheimer's and Dementia. 16, 1, p. 162-177 16 p.

A tutorial on individual participant data meta-analysis using Bayesian multilevel modeling to estimate alcohol intervention effects across heterogeneous studies
Huh, D., Mun, E. Y., Walters, S. T., Zhou, Z. & Atkins, D. C., Jul 2019, In : Addictive Behaviors. 94, p. 162-170 9 p.

A meta-analysis of the association between the presence of Helicobacter pylori and periodontal diseases
Chen, Z., Cai, J., Chen, Y. M., Wei, J., Li, H. B., Lu, Y., Zhou, Z. & Chen, X. L., 1 May 2019, In : Medicine. 98, 22, p. e15922

Comparison of diabetic nephropathy between male and female eNOS$^{-/-}$ db/db mice
Ma, Y., Li, W., Shotorbani, P. Y., Dubansky, B. H., Huang, L., Chaudhari, S., Wu, P., Wang, L. A., Ryou, M. G., Zhou, Z. & Ma, R., May 2019, In : American Journal of Physiology - Renal Physiology. 316, 5, p. F889-F897

Homozygous rare Parn missense mutation in familial pulmonary fibrosis
Zhang, D., Zhou, Z., Abu-Hijleh, M., Batra, K., Xing, C. & Garcia, C. K., 15 Mar 2019, In : American Journal of Respiratory and Critical Care Medicine. 199, 6, p. 797-799 3 p.

A novel autosomal recessive lipodystrophy syndrome due to homozygous LMNA variant
Patni, N., Hatab, S., Xing, C., Zhou, Z., Quittner, C. & Garg, A., 2019, (Accepted/In press) In : Journal of Medical Genetics. 106395.

Genome-Wide Methylation of Mild Cognitive Impairment in Mexican Americans Highlights Genes Involved in Synaptic Transport, Alzheimer's Disease-Precursor Phenotypes, and Metabolic Morbidities
Pathak, G. A., Silzer, T. K., Sun, J., Zhou, Z., Daniel, A. A., Johnson, L., O'Bryant, S., Phillips, N. R. & Barber, R. C., 2019 , In : Journal of Alzheimer's Disease. 72, 3, p. 733-749 17 p.

Decomposing Pearson's χ^2 test: A linear regression and its departure from linearity
Zhou, Z., Ku, H. C., Xing, G. & Xing, C., Sep 2018, In : Annals of Human Genetics. 82, 5, p. 318-324 7 p.

Instability of TCF4 triplet repeat expansion with parent– child transmission in Fuchs' endothelial corneal dystrophy
Saade, J. S., Xing, C., Gong, X., Zhou, Z. & Mootha, V. V., Aug 2018, In : Investigative Ophthalmology and Visual Science. 59, 10, p. 4065-4070 6 p.

Oligonucleotides targeting TCF4 triplet repeat expansion inhibit RNA foci and mis-splicing in Fuchs' dystrophy
Hu, J., Rong, Z., Gong, X., Zhou, Z., Sharma, V. K., Xing, C., Watts, J. K., Corey, D. R. & Vinod Mootha, V., 15 Mar 2018, In : Human Molecular Genetics. 27, 6, p. 1015-1026 12 p.

Differentiating the Cochran-Armitage Trend Test and Pearson's χ^2 Test: Location and Dispersion
Zhou, Z., Ku, H. C., Huang, Z., Xing, G. & Xing, C., Sep 2017, In : Annals of Human Genetics. 81, 5, p. 184-189 6 p.

Fuchs' endothelial corneal dystrophy and RNA foci in patients with myotonic dystrophy
Mootha, V. V., Hansen, B., Rong, Z., Mammen, P. P., Zhou, Z., Xing, C. & Gong, X., Sep 2017, In : Investigative Ophthalmology and Visual Science. 58, 11, p. 4579-4585 7 p.