Mengyu (Ammy) Pan

CONTACT INFORMATION

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RESEARCH EXPERIENCE & ADVANTAGES

Genetic analysis:

Phasing, Imputation (genome, HLA/APOE/C4 genotype), GWAS, PRS, MR,
DNA methylation analysis, Prediction, Heritability Estimation, Machine learning

Programming:

R, Python

Languages:

Chinese (native tongue), English (fluently), Danish and Norwegian (primary)

EDUCATION

University of Southern Denmark, Denmark
M.Sc in Omics, 2016.09-2018.06

University of Chinese Academy of Sciences, China
M.Sc in Bioinformatics (joint degree), 2016.09-2019.06

Henan University of Technology, China
Bachelor in Pharmaceutical Engineering, 2012.09-2016.06

EMPLOYMENT HISTORY

Department of Clinical Sciences Malmö, Lund University, Malmö, Sweden
Bioinformatics Engineer, 2022.04 - Present

Lifespan Changes in Brain and Cognition group, UiO, Oslo, Norway
Head Engineer, 2020.09-2022.03

Novogene Company (European)., Ltd. China
Bioinformatician, 2019.06-2020.03

PROJECT DESCRIPTIONS (CONTRIBUTIONS)

1.Genetic Susceptibility to Mood Disorders and Risk of Stroke: A Polygenic Risk Score and Mendelian Randomization Study (published, 2023)
contribute to 2sample MR, PRS for UKBB analysis

2.Circulating S100B levels at birth and risk of six major neuropsychiatric or neurological disorders: a two-sample Mendelian Randomization Study (published, 2023)
contribute to 2sample MR analysis on neuropsychiatric disorders and data collection

3.Population-level asymmetry of the cerebral cortex: reproducibility, lifespan changes, heritability, and individual differences (published, 2023)

4.Polygenic risk scores for mood disorders predict future strokes in women: a Mendelian

randomization study (published, 2022)

contribute to genome data QC and heritability estimation

5. Associations of circulating C-reactive proteins, APOE 4, and brain markers for Alzheimer's d Disease in healthy samples from 4 to 80 years (published,2021)

contribute to inflammation factor APOE genotypes phasing and imputation (UK Biobank)

6. Population-level asymmetry of the cerebral cortex mapped at high resolution: reproducibility, lifespan changes, heritability, and individual differences (published,2021)

9. CGVD: a genomic variation database for Chinese populations. Nucleic Acids Res. 2020 Jan 8;48(D1):D1174-D1180

contribute to database construction and data collection, imputation

10.Database Resources of the National Genomics Data Center in 2020. Nucleic Acids Res. 2020 Jan 8;48(D1):D24-D33

contribute to database construction and data collection

11.Database Resources of the BIG Data Center in 2019. Nucleic Acids Res. 2019 Jan 8;47(D1):D8-D14

contribute to database construction and data collection

12.Database Resources of the BIG Data Center in 2018. Nucleic Acids Res. 2018 Jan 4;46(D1):D14-D20

contribute to database construction and data collection

RESEARCH INTERESTS

TensorFlow Frame and OpenAI Vision Learning

Deep Learning prediction on disease events

Population computational genetics

Disease Transcriptomics

Single Cell Transcriptome and Spatial transcriptomics

Awards & Certificates

2016-2018

Excellent Volunteer of FOCAC (Forum on China–Africa Cooperation)

GATK Training Graduation Certificates

2012-2016

Merit Students of the University 3 years

Outstanding Cadres of Henan University of Technology 2 years

Merit Leader of the Zhengzhou City for Summer Social Practice

The Second Price of the 14th "Challenge Cup" National Undergraduate Curricular Academic Science and Technology

The Third Price of China Undergraduate Mathematical Contest in Modeling (CUMCM)

Hobbies

Sports (hiking, running, skiing, squash etc), Traveling, Reading, Pets