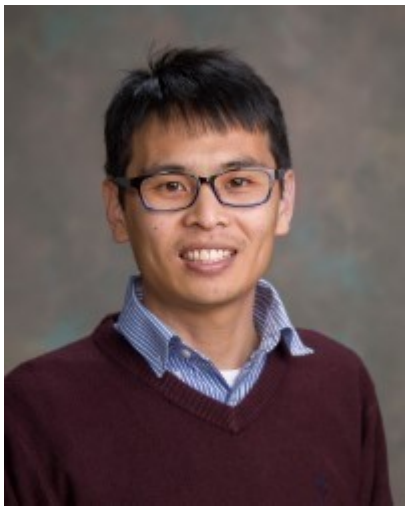

Shicheng Guo PhD

Postdoctoral Fellow-Research

Center for Precision Medicine Research
1000 North Oak Ave. MLR Marshfield, WI 54449

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(https://shicheng-guo.github.io/) (https://shicheng-guo.github.io/) NIH (https://scholar.google.com/citations?user=BixB4TsAAAAJ&hl=en)

Profile

Bio

Research Involvement

Publications

Statement

Dr. Shicheng Guo received his Ph.D. degree in Fudan University under Prof. Li Jin, Prof. Jiucun Wang and Prof. Momiao Xiong. After the post-doctoral training at University of Texas Health Science Center at Houston (UT Health) and University of California, San Diego (UCSD), Dr. Guo joined Dr. Steven Schrodi's lab at Center for Precision Medicine Research at the Marshfield Clinic Research Institute. Dr. Guo made series contribution on Human PBMC methylome, Silk methylome and tissue-of-origin mapping by cell-free circulating DNA methylation. Now, He is focusing on genetic epidemiology and the diagnostic and prognostic roles of epigenetic variations in human complex disease, especially human autoimmune disease and cancer. In the Marshfield Clinic, Dr. Guo will make full use of his bioinformatics, big data analysis and text mining skills to valuable Marshfield Personalize Medicine Research Project dataset (including 20,000 Exome-chip data and comprehensive clinical and epidemiological information) and Roadmap, Blueprint, Encode project to identify disease susceptibility genes and epigenetic markers for early diagnosis or real-time prognosis surveillance.

Research Interests

1. Interaction between Genetics and Epigenetics in Precision Medicine.
2. Epigenetic biomarker for cancer and autoimmnue diseases.
3. Novel Genetic Suscepitibility Genes for Rheumatoid Arthritis, Systemic Sclerosis, Ankylosing Spondylitis.
4. Pharmacogenomics for Rheumatoid Arthritis, Systemic Sclerosis, Ankylosing Spondylitis.
5. Drug Response, Resistance and Persistence based on pharmaco-genomics (PGx) and pharmaco-epigenomics (PeGx)
6. Deep learning in cancer and autoimmnue diseases diagnsotic and prognostic prediction and machanism discovery.