Han Yuan

Education

Duke-NUS Medical School, Singapore, Aug. 2020 – Jul. 2024, Ph.D. Degree in Biostatistics

Nankai University, Tianjin, China, Sept. 2015 – Jun. 2019, B.S. Degree in Applied Mathematics

Professional Experience

Analyst Intern, Comprehensive Cancer Center Zurich, University Hospital Zurich, Jan. – Jun. 2022, Developed several multi-modality models to facilitate medical diagnoses

Analyst Intern, Channing Division of Network Medicine, Brigham Health, Aug. – Dec. 2019, Debugged algorithm and simplified time and space complexity of algorithm's code on R

Data Analyst Intern, Division of Macroeconomic Research, Founder Securities, Aug. – Sept. 2017, Finished 5+ drafts of macroeconomic research reports and 10+ industrial data reviews

Finance Intern, Jiangsu Branch, Bank of China, Aug. – Sept. 2016, Processed payments, issued invoices, staff claims, bank transfers & reconciliations.

President, Econ-China Association, Nankai University, Sept. 2016 – Jun. 2017, Organized 15+ seminars on economics and invited 10+ professors, attracting 80% of club members

Teaching Volunteer, Tianjin Yongji Primary School, Sept. 2015 – Jan. 2016, Weekly guided 40+ pupils about math knowledge

Research Experience

University of Zurich, Zurich, Switzerland, Jan. – Jun. 2022, Research Scholar, Biostatistics

Harvard University, Boston, United States, Jul. 2019 – Jan. 2020, Research Scholar, Epidemiology

Publications

Yuan, H., ... & Liu, N. (2022). AutoScore-Imbalance: An interpretable machine learning tool for development of clinical scores with rare events data. Journal of Biomedical Informatics.

Xie, F., Ning, Y., Yuan, H., ... & Chakraborty, B. (2022). AutoScore-Survival: Developing interpretable machine learning-based time-to-event scores with right-censored survival data. Journal of Biomedical Informatics.

Xie, F.*, Yuan, H.*, ... & Liu, N. (2021). Deep learning for temporal data representation in electronic health records: A systematic review of challenges and methodologies. Journal of Biomedical Informatics.

Miao, C., ... Yuan, H., ... & Wang, Z. (2021). TRIM37 orchestrates renal cell carcinoma progression via histone H2A ubiquitination-dependent manner. Journal of Experimental & Clinical Cancer Research.

Xie, F., Ning, Y., Yuan, H., ... & Liu, N. (2021). Package 'AutoScore': An Interpretable Machine Learning-Based Automatic Clinical Score Generator. R Package.

Zhao, Y.*, Yuan, H.* & Wu, Y. (2021). Prediction of Adverse Drug Reaction using Machine Learning Based on an Imbalanced Electronic Medical Records Dataset. International Conference on Medical and Health Informatics (Full Paper).

Zhang, J. J., Sun, Z., Yuan, H., & Wang, M. (2020). Alternatives to the Kaplan-Meier estimator of progression-free survival. The International Journal of Biostatistics.

Miao, C.*, Yu, A.*, Yuan, H.*, ... & Wang, Z. (2020). Effect of Enhanced Recovery After Surgery on Postoperative Recovery and Quality of Life in Patients Undergoing Laparoscopic Partial Nephrectomy. Frontiers in Oncology.

Honors

The Runner-up of the 7th Annual Ph.D. Student Research Symposium, 2022

Khoo Pre-Doctoral Fellowship, 2020 & 2021 & 2022 & 2023

Merit Graduates (Top 5% Graduates), 2019

The Third Prize of Undergraduate Scientific Research (Top 20% Groups), 2018

The First Prize of Excellent Undergraduate Scholarship (Top 5% Students), 2016 & 2017

Merit Student (Top 10% Students), 2016