Han Yuan

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EDUCATION & ACADEMIC VISITINGS

Duke-NUS Medical School, Singapore — Aug.2020 – Jul. 2024
Ph.D. Degree in Biostatistics and Health Data Science — Advisor: Dr. Nan Liu
Harvard University, Boston, MA, The United States — Jul. 2019 – Jan. 2020
Research Scholar, Departments of Epidemiology and Biostatistics — Advisor: Dr. Molin Wang
Nankai University, Tianjin, TJ, China — Sept. 2015 – Jun. 2019
Double B.S. Degrees in Bio-technology & Mathematics and Applied Mathematics — **Ranking: 1st/79, GPA: 3.7/4.0**

PUBLICATIONS & MANUSCRIPTS

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., Liang, C., Li, P., Liu, B., Qin, 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 and Deep Learning Based on an Imbalanced Electronic Medical Records Dataset. ***International Conference on Medical and Health Informatics***.

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.***, Gu, M., & 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***.

* Equal contribution

HONORS & AWARDS

Khoo Pre-Doctoral Fellowship, *Duke-NUS Medical School* — 2020
Merit Graduates (**Top 5% Graduates**), *Nankai University* — 2019
The Third Prize of Undergraduate Scientific Research (**Top 20% Groups**), *Tianjin Municipal Education Commission* — 2018
The First Prize of Excellent Undergraduate Scholarship (**Top 5% Students**), *Nankai University* — 2016 & 2017
Merit Student (**Top 10% Students**), *Nankai University* — 2016

COURSEWORK & SOFTWARE

Computer Skills: R, C++, Python, LaTex, Simio, Softberry, IGV, Gblocks, ProTest, etc.
Curriculum Highlights: Mathematics and Statistics: Advanced (linear) Algebra, Mathematical Analysis, Biostatistics, Bioinformatics, Ordinary Differential Equation, Data Mining
Biology: Neurobiology, Genetics, Molecular Biology, Cytobiology, Microbiology

EXTRACURRICULAR ACTIVITIES

Data Analyst Intern, **Channing Division of Network Medicine, BRIGHAM HEALTH** — Aug. – Dec. 2019
- Compared and selected statistical models based on different projects (mainly longitudinal datasets)
- 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
- Conducted macro-economy and industry analysis by using R and Excel with records from Bloomberg and National Bureau of Statistics of several different countries like US Census Bureau
- Finished 5+ draft of macroeconomic research reports and 10+ industrial data reviews

President, **Econ-China Association of Nankai University** — Sept. 2016 – Jun. 2017
- Organized 15+ seminars on economics and invited 10+ professors, attracting 80% Club members
- Maintained interactions with alumni and companies like CICC to find internships for Club members

Teaching Volunteer, **Tianjin Yongji Primary School** Sept. 2015 – Jan. 2016

- Weekly guided 40+ pupils about math knowledge