

# Han Yuan

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## EDUCATION & ACADEMIC VISITINGS

<b>Duke-NUS Medical School</b> , Singapore	Aug.2020 – Jul. 2024
Ph.D. Degree in Biostatistics and Health Data Science	Advisor: Dr. Nan Liu
<b>University of Zurich</b> , Zurich, Switzerland	Jan. 2022 – Jun. 2022
Research Scholar, Department of Quantitative Biomedicine	Advisor: Dr. Michael Krauthammer
<b>Harvard University</b> , Boston, United States	Jul. 2019 – Jan. 2020
Research Scholar, Departments of Epidemiology and Biostatistics	Advisor: Dr. Molin Wang
<b>Nankai University</b> , Tianjin, China	Sept. 2015 – Jun. 2019
Double B.S. Degrees in Bio-technology & Mathematics and Applied Mathematics	<b>Ranking: 1st/79, GPA: 3.7/4.0</b>

## 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, <i>Duke-NUS Medical School</i>	2020
Merit Graduates ( <b>Top 5% Graduates</b> ), <i>Nankai University</i>	2019
The Third Prize of Undergraduate Scientific Research ( <b>Top 20% Groups</b> ), <i>Tianjin Municipal Education Commission</i>	2018
The First Prize of Excellent Undergraduate Scholarship ( <b>Top 5% Students</b> ), <i>Nankai University</i>	2016 & 2017
Merit Student ( <b>Top 10% Students</b> ), <i>Nankai University</i>	2016

## COURSEWORK & SOFTWARE

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

## EXTRACURRICULAR ACTIVITIES

<b>Data Analyst Intern, Comprehensive Cancer Center Zurich, UNIVERSITY HOSPITAL ZURICH</b>	Jan. – Jun. 2022
• Compared machine learning models in multiple medical text analyses	
<b>Data Analyst Intern, Channing Division of Network Medicine, BRIGHAM HEALTH</b>	Aug. – Dec. 2019
• Compared and selected statistical models on different projects (mainly longitudinal datasets)	
• Debugged algorithm and simplified time and space complexity of algorithm's code on R	
<b>Data Analyst Intern, Division of Macroeconomic Research, FOUNDER SECURITIES</b>	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