Houlin Chen

📱 +1 (248) 961 7640
✉ houlin.chen@mail.utoronto.ca
🌐 www.houlin.info

Education

Fall 2020 –Winter 2024
Honours Bachelor of Science, Double Majors in Mathematics and Statistics, *UNIVERSITY OF TORONTO*, Toronto, ON, Canada
Mathematics: Groups and Symmetries, Complex Variables, and Nonlinear Optimization. Statistics: Methods of Data Analysis I, Methods for multivariate data, and Applied Bayesian Statistics.

Experience

Internships

Fall 2022 –now
Marketing Data Analysis, *Employee, AP LAZER*, Windsor, ON, Canada
Running paid search and paid social media ad reports, calculating ROI, and making summary and comparison tables.
Analyzing the effectiveness of each campaign, ad group, and ad.
Combining the static information from the CRM program to provide a focused and simplified data table for the marketing team to improve the ads.

Projects

Summer 2022
Machine Learning Project, *Undergraduate Research Assistant, UNIVERSITY OF TORONTO*, Toronto, ON, Canada
Established a 3D indoor positioning system based on a radio frequency sensor capturing small-scale fading and Gaussian process regression [1].
Developed a dynamic data driven application system based on signals of opportunity with Dirichlet process clustering and ensemble learning [2].

Summer 2021
Summer Aboard Program, Social Research, *Vice President, RENMIN UNIVERSITY OF CHINA, and NANKAI UNIVERSITY*, Beijing and Tianjin, China
Discussed with university professors and students in different countries on love, marriage, and sexuality, and higher education or health.
Summarized 3 journals about what was learned from lectures, including the Agrarian Reform, Family Planning, and growth of underground gay organizations in China.
Wrote a research essay entitled "Research and Solution of Violent Law Enforcement of Urban Management."

Publications

[1] L. Yuan, **H. Chen**, R. Ewing, E. Blasch, J. Li, "Three Dimensional Indoor Positioning Based on Passive Radio Frequency Signal Strength Distribution," *IEEE Internet of Things Journal*, Mar. 2023. DOI: 10.1109/JIOT.2023.3263476.

[2] L. Yuan, **H. Chen**, R. Ewing, and J. Li, "Passive Radio Frequency-based 3D Indoor Positioning System Via Ensemble Learning," In *DDDAS 2022*, Oct. 2022. arXiv preprint arXiv:2304.06513.

Academic Services

Journal Review | IEEE Access

Skills

R Studio, Python, LaTeX, Microsoft Office, Adobe Acrobat, Overleaf.

Languages

Chinese | First language.
English | Second language; IELTS overall score: 6.5.