Houlin Chen

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Education

Fall 2020 –Winter 2024 **Honours Bachelor of Science, Double Majors in Mathematics and Statistics**, *UNIVERSITY OF TORONTO*, Toronto, ON, Canada, *GPA 3.21/4*

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

Proactively managed and optimized advertising budget by analyzing sales reports, taking initiative to increase revenue, and directly liaised with CEO for strategic decision-making.

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.