

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
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.