

HAOCHONG (ROGERS) YANG

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Rotman School of Management, University of Toronto | 105 St. George Street | Toronto, ON, Canada M5S 3E6

EDUCATION

- Ph.D. Student in Operations Management and Statistics (Year 1)** 2025 – Present
Rotman School of Management, University of Toronto (U of T) | Toronto, ON, Canada
- Honours B.Sc. in Statistics and Computer Science (with High Distinction)** 2021 – 2025
Faculty of Arts & Science, U of T | Toronto, ON, Canada cGPA: 3.96/4.00
Thesis: Analysis of Heterogeneity of Single-Cell DNA Structure using Contact Matrices
Supervisor: Prof. Elena Tuzhilina

RESEARCH INTERESTS

- Methodologies:** Causal Inference, Machine Learning
Applications: Stochastic Modeling, Inventory Optimization

PUBLICATIONS & WORKING PAPERS

[M]: MANUSCRIPT, [P]: PUBLICATION, [R]: UNDER REVIEW

- [P] **Concise Multi-Class Anxiety Disorder Risk Assessment: A Novel Advanced Machine Learning Approach**
Haochong Yang; Yuan Hong Sun; Kang Lee
Journal of Anxiety Disorders, 112, 103018 (2025). [10.1016/j.janxdis.2025.103018](https://doi.org/10.1016/j.janxdis.2025.103018)
- [P] **Enhanced Real-Life Data Modeling with the Modified Burr III Odds Ratio–G Distribution**
Haochong Yang; Mingfang Huang; Xinyu Chen; Ziyang He; Shusen Pu
Axioms, 13, 401 (2024). [10.3390/axioms13060401](https://doi.org/10.3390/axioms13060401)

AWARDS AND SCHOLARSHIPS

[A]: ACADEMIC, [R]: RESEARCH

- [R] Doctoral Fellowship (\$40,000) *Rotman School of Management, U of T* | 2025
[A] University College Alumni Scholarship (\$500) *University College, U of T* | 2025
[R] University of Toronto Excellence Award (\$7,500) *Ontario Institute for Studies in Education, U of T* | 2025
[R] Summer Undergraduate Data Science Scholarship (\$7,500) *Data Science Institute, U of T* | 2024
[A] C.L. Burton Scholarship for Mathematics (\$500) *University College, U of T* | 2023
[A] Louis Savlov Scholarships in Sciences (\$500) *University College, U of T* | 2022, 2025
[A] University of Toronto Scholar Award (\$1,500) *Faculty of Arts & Science, U of T* | 2022
[A] Dean's List Scholar Awards *Faculty of Arts & Science, U of T* | 2022 – 2025

TALKS AND PRESENTATIONS

PRESENTATIONS

- Application of Statistical Methods in Psychological Assessments**
Joint Mathematics Meetings Jan 2025

PROFESSIONAL EXPERIENCE

RESEARCH ASSISTANTSHIP

- Infinitesimal Jackknife Standard Errors Analysis, with Prof. F Ji** *Dept. of Applied Psychology, U of T* | 2025

Heterogeneity of Single-Cell Structure, with Prof. E Tuzhilina Dept. of Statistical Sciences, U of T | 2025
ML Based Concise Multiclass Anxiety Assessment, with Prof. K Lee Dept. of Applied Psychology, U of T | 2024
Enhanced Real-Life Data Modeling, with Prof. S Pu University of West Florida, Pensacola, US | 2024
Social Theories with Reinforcement Learning, with Prof. W Cunningham Dept. of Psychology, U of T | 2023

INDUSTRY EXPERIENCE

Mining Data Analyst (co-op) @ *Toromont CAT* Concord, ON, Canada | 2023
Software Developer (Intern) @ *BL Innovare* Markham, ON, Canada | 2022

TECHNICAL SKILLS

Coding Python, Java, JS, Shell, Assembly, C, C++
Data R, SQL, Tableau, PowerBI, Kafka, Docker

Frameworks TensorFlow, PyTorch, Langchain, Django
Packages Pandas, NumPy, Matplotlib, Scikit-Learn

(Last Updated Oct 2025)