Gansen Deng

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SUMMARY OF QUALIFICATIONS

- Expert in Machine Learning and Statistics: Ph.D. in Statistics with strong foundation in statistical theory, natural language processing, deep learning, clustering, semi-supervised learning, active learning, and longitudinal analysis.
- Advanced Programming Skills: Over six years of hands-on experience conducting complex data analyses using R, Python, SQL, C++, Tableau, and Julia.
- Effective Communicator and Collaborator: Proven publication record across interdisciplinary health and biomedical domains; skilled at translating technical concepts for non-technical audiences.

EDUCATION

•	Ph.D. in Statistics Western University	Sep.	2020 - Apr. 2025
•	Master of Science in Biostatistics Western University	Sep.	2019 – Aug. 2020 Average: 87.5/100
•	Visiting student in Statistics Western University	Sep.	2018 – Apr. 2019 Average: 91/100
•	Bachelor of Science in Applied Mathematics, Minor in finance South China University of Technology	Sep.	2015 – Jun. 2019 <i>GPA: 3.72/4</i>

EXPERIENCE

•	Statistical Consultant Western University	Sep. 2022 – Aug. 2024 Advised students and faculty on machine learning methods across a range of disciplines
•	Teaching Assistant Western University	Sep. 2019 – Dec. 2024 Supported statistics and data science courses through tutoring, grading, and lab instruction
•	Stock Trade Analyst (Guosen Securities	nternship) Jul. 2018 – Aug. 2018 Led a team to develop and test algorithmic trading strategies

Research Projects

- A Novel Distance Metric for Clustering Questionnaire Data: Developed a custom distance metric that accounts for the unique properties of self-reported variables in questionnaire-based data, enabling more accurate similarity assessments between subjects.
- Interpretable Clustering of Chronic Pain Patients Using Questionnaire Data: Applied the Interpretable Clustering via Optimal Trees (ICOT) method in conjunction with the proposed distance metric to cluster chronic pain patients, ensuring model transparency and clinical interpretability.
- Semi-supervised Clustering of Self-reported Data via Active Learning: Introduced an semi0supervised framework that incorporates expert knowledge to guide clustering, and proposed a novel active learning strategy for selecting the most informative subject pairs for labeling.

Research Papers

- Longitudinal analysis of mucosa-associated invariant T cells in sepsis reveals their early numerical decline with prognostic implications and a progressive loss of antimicrobial functions. Immunology and Cell Biology 101.3 (2023): 249-261.
- Epilepsy-associated death in the Southwestern Ontario: A clinicopathological correlation study. Brain Pathology 33.2 (2023): e13121.
- A real time and interactive web-based platform for visualizing and analyzing COVID-19 in Canada. International Journal of Statistics and Probability, 9(5), 23-29 (2020).

CERTIFICATIONS

- AI for Medicine Specialization Coursera
- Natural Language Processing with Attention, Sequence and Probabilistic Models Coursera
- Data Visualization with Tableau Specialization Coursera
- Introduction to Big Data Coursera