Yuki (Yuxin) Chen

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EDUCATION

University of British Columbia, Kelowna, Canada   September 2022 – Present
Data Science, M.S. | **GPA: 93.9/100**
- <u>Relevant Courses</u>: Algorithms and Data Structures, Databases and Data Retrieval, Web and Cloud Computing.

Shanghai University of International Business and Economics, Shanghai, China   October 2018 – June 2022
Data Science and Big Data Technology, B.S. | **GPA: 88.49/100**
- <u>Relevant Courses</u>: C++ Programming, Python Programming, Data Mining and Machine Learning, Data Visualization, Natural Language Processing, Computational Statistics, Linear Algebra, Bayesian Statistics, Artificial Intelligence.
- <u>Honours</u>: First Prize Scholarship (Autumn 2020), Second Prize Scholarship (Spring 2021, Spring 2020, Autumn 2019, Spring 2019), Outstanding Student Leadership Award (2020).

University of California, Los Angeles   February 2021
Big Data and Business Applications Online Programme | **GPA: 4.3/4.3**
- A 10-week intense program; with emphasis on case studies.

TECHNICAL SKILLS

Programming: C++, Python, SQL, R, Golang, Lingo
Software: AIMMS, Tableau, MATLAB, Photoshop, Director, Audition, Excel, Management Scientist
Platforms: Linux, Windows
Open-Source Frameworks: Scikit-learn, Keras, TensorFlow, Pytorch

PROFESSIONAL EXPERIENCE

Optimization Analytics Technology Pte Ltd., Shanghai Office   Shanghai, China
Optimization Algorithm Intern   September 2021 – March 2022
- Work in a team of 4 on optimization analytics for network planning and resource allocation.
- Analyze client needs, formulate optimization problems, and process data with SQL; build mathematical models using AIMMS; develop algorithms and calculate optimal results in C++/Java/Python.
- Exposed to large datasets and real-world challenges faced by various industries; familiarised with optimal solutions for operation consulting, improving technical and communication skills in a fast-paced work environment.

RESEARCH PROJECTS

Task-oriented Question Answering for Traditional Chinese Medicine (TCM)   May 2021 – May 2022
Advisor: Dr. Liangliang Liu
- Constructed a TCM knowledge graph based on *Compendium of Materia Medica* using Python and Neo4j.
- Designed and implemented an algorithm for joint-model question answering and information retrieval (an NLP dialogue system) for TCM diagnosis and prescription recommendation.
- Part of a national project on TCM knowledge mapping, co-working with the Chinese Academy of Sciences and the Institute of Basic Research in Clinical Medicine, China Academy of Chinese Medical Sciences.

Chinese Text Retelling Algorithm Based on Multi-level Semantic Units   March 2021 - October 2021
Advisor: Prof. Chengcheng Hao
- Proposed a text retelling method for automated semantic augmentation aimed towards dialogue systems.
- Developed an algorithm to replace extracted Chinese words with synonyms determined by context features, sentence templates, and candidate sets, using a bidirectional LSTM model based on the attention mechanism.

Tag-based Hybrid Bayesian Personalised Ranking for Literature Recommendation   June 2020 - October 2020
- Developed a recommender system using hybrid Bayesian personalized ranking and weight coefficient algorithms, based on user interactions extracted from Wanfang Data with Python.

Community Health Pass App   April 2020
- Built an app with App Inventor for communities and residences to manage health profiles and entry records of residents, by using a web API to generate and read QR codes; improving community health during the pandemic.

Digital Government Strategies and Models for Foreign Trade Policy Optimization   July 2019 - December 2019
- Led a team of 4 to analyze foreign trade performance impacted by digital government strategies, based on data collected through visiting over 20 enterprises; proposed models for policy optimization.