

Yuki (Yuxin) Chen

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EDUCATION

University of British Columbia, Kelowna, Canada September 2022 – Present
Data Science, M.S. | GPA: 91.9/100

- Relevant Courses: 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

- Relevant Courses: C++ Programming, Python Programming, Data Mining and Machine Learning, Data Visualization, Natural Language Processing, Computational Statistics, Linear Algebra, Bayesian Statistics, Artificial Intelligence.
- Honours: 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

JustPractice Technologies Inc Vancouver, Canada, Remote
Data Scientist Capstone Intern May 2023 – Present

- Apply natural language processing technology to extract information from medical free-text notes, tabulate and structure data related to heart failure in Python, develop app to visualize the result to accelerate the doctor's diagnosis of the patient.
- Work in a team of 4 to analyse medical free-text notes.

Optimization Analytics Technology Pte Ltd., Shanghai Office Shanghai, China
Optimization Algorithm Intern September 2021 – March 2022

- 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.
- Work in a team of 4 on optimization analytics for network planning and resource allocation.
- Exposed to large datasets and real-world challenges faced by various industries.

RESEARCH PROJECTS

Task-oriented Question Answering for Traditional Chinese Medicine (TCM) May 2021 – May 2022
Advisor: Dr. Liangliang Liu

- Designed and implemented an algorithm for joint-model question answering and information retrieval (an NLP dialogue system) for TCM diagnosis and prescription recommendation.
- Constructed a TCM knowledge graph based on Compendium of Materia Medica using Python and Neo4j.
- 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.