LI, YUJIE

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EDUCATION

The Chinese University of Hong Kong *To be formally enrolled in 2021.8*
Ph.D. in Sociology

The Hong Kong University of Science and Technology *2020.9 - 2021.11*
M.Sc. in Big Data Technology

Sun Yat-sen University *2016.8 - 2020.6*
B.Eng. in Intelligence Science and Technology
Minor in Politics and Administration

RESEARCH INTERESTS

Computational Social Science, Text as Data, Political Communication, Social Networks

RESEARCH EXPERIENCE (SOCIAL SCIENCE RELATED)

Predicting Social Unrest by Social Network: Using Data of Hong Kong LIHKG Forum
Research Assistant, Supervised by Prof. XIA Ying *2020.11 - Present*

· Responsible for data cleaning and analysis. Processed more than 14 million posts from LIHKG forum.
· Building social unrest prediction system by using social computing technology and natural language processing technology.

Measuring Media Slant: Using Data of Daily Newspaper in Post-handover Hong Kong
Research Assistant, Supervised by Prof. XIA Ying *2020.8 - 2020.11*

· Prospective second author, undertaking most of the data processing and analysis work in the project. Completed more than 3000 lines of Python codes and processed more than one gigabyte of texts.
· Using natural language processing technology and topic modelling to analyze the similarity between different media.

Mathematical Modeling: Evaluation of Information Technology Governance Ability of Chinese Local Governments
Undergraduate Research Project *2019.11 - 2020.1*

· Responsible for data transformation, analysis and mathematical modeling.
· Building an evaluation system by using the multi-attribute decision-making method based on information entropy.

RESEARCH EXPERIENCE (OTHERS)

Design and Implementation of Horizontal Federated Learning Algorithm for Privacy Protection Based on TextCNN
Undergraduate Research Project *2019.11 - 2020.5*

· Using the combination of secure multi-party computing technology and machine learning technology to design a federated learning text classification model training scheme for privacy protection.

Generative Adversarial Network Restricted to Local Image Information Transformation
Undergraduate Research Project *2018.5 - 2018.8*

· Using GAN to research into the validity of video recognition algorithm for pedestrians camouflaged by obstacles or patterns.

SKILLS

Language	Mandarin (Native), English (IELTS 7.5)
Coding	Python, C/C++, C#, Golang, LaTeX
Platform	Pytorch, Spark, Scikit-learn, NetworkX, DGL

AWARDS AND RECOGNITIONS

Excellence Award in 2020 "Government Affairs Concern" Provincial Social Research Contest(*top 12%*)

Second Prize in 2019 Sun Yat-sen University Computer Programming Competition (*top 10%*)
Second Prize in 2018 Sun Yat-sen University Computer Programming Competition (*top 10%*)
Second Prize in 2017 Sun Yat-sen University Novice Computer Programming Competition (*top 12%*)