Chenyan LIU

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EDUCATION BACKGROUND

- **National University of Singapore (NUS)** **08/2021 – 12/2022**

DEGREE: M.S. of Computing (with specialization in computer science) **GPA:** 4.42/5

- **Huazhong University of Science and Technology (HUST)** **09/2017 – 06/2021**

DEGREE: B.Eng. in Computer Science and Technology **GPA**: 3.91/4

GRE: 321 (Verbal: 153; Quantitative: 169; Writing: 3.5) **TOEFL**: 106 (R: 29, L: 29, S: 23, W: 25)

SELECTED HONOURS AND AWARDS

- ✧ Outstanding Undergraduate Student, HUST 06/2021
- ✧ Merit Student (top 5%), HUST 11/2018
- ✧ Outstanding Entrants Scholarship, School of Computer Science and Technology, HUST 03/2018

RESEARCH EXPERIENCE

Research Intern (Supervisor: Asst. Prof. Yun Lin, NUS)

CodeVocal: A Knowledge-Driven Approach to Recovering Out-of-Vocabulary Tokens for Boosting Deep Code Comment Generation Models **05/2022 – now**

- ✧ Extensive survey for code summarization models and solutions for the out-of-vocabulary problem;
- ✧ Hands-on training experience with pre-trained models like CodeBERT.

Generative Adversarial Network **01/2022 – 05/2022**

- ✧ Extensive survey and implementation for GAN variants;
- ✧ Comparison and analysis of GAN variants' performance over different tasks.

Summer Research Intern (Supervisor: Asst. Prof. Zhe Jiang, University of Florida)

Automatic Stream Delineation of Geographic Image Based on Attention **04/2022 – now**

- ✧ Automatically generate geographic polylines for river delineation based on earth imagery;
- ✧ Proposing a conditional RNN model by treating vertices of polylines as a sequence of coordinates;
- ✧ Adopting attention mechanism to improve model performance.

Undergraduate Dissertation (Supervisor: Asst. Prof. Wei Wang, HUST)

Real-Time Scalable Video Distribution System Based on Dynamic Coalition **02/2021 – 11/2021**

- ✧ Proposed a dynamic coalition formation algorithm for device-to-device assisted real-time scalable video distribution under the cellular network;
- ✧ The dissertation is accepted by GLOBECOM 2022 as the first author.

PUBLICATION

- ✧ C. Liu, W. Wang, R. Dai, H. Nie and P. Xu, "A Real-Time Scalable Video Distribution Strategy Based on Dynamic Coalition and D2D Broadcast," 2022 IEEE Global Communications Conference (GLOBECOM), 2022.

EXTRACURRICULAR ACTIVITIES

CCF Student Member, China National Computer Congress **10/2018**

- ✧ Participated in academic conferences held by the China Computer Federation (CCF), inspired by scholars' presentations.

PROFESSIONAL SKILLS

Programming Languages: Python, C/C++, SQL, Assembly, LaTeX