

EDUCATION BACKGROUND

Harbin University of Science and Technology	Harbin, China	09/2021-03/2024
<i>School of Computer Science and Technology</i>		
● Master of Engineering, Computer Science and Technology, Overall GPA: 3.7/4.0		
<i>Awards and Honors</i>		
● Academic Scholarship for Master's Degree		2021-2022
● Outstanding Postgraduate Student		2021-2022
Beihang University	Beijing, China	09/2014-07/2018
<i>School of Computer Science and Engineering</i>		
● Bachelor of Engineering, Computer Science and Technology, Overall GPA: 2.78/4.0		
<i>Awards and Honors</i>		
● Third Price in the 27 th “Feng Ru Cup” Competition of Academic and Technological Works		05/2017

WORK EXPERIENCE

Algorithm Intern, OCR Team, Baidu Visual Technology Department	10/2022-03/2023
● Cleansed and preprocessed text detection and recognition annotated data for training and testing models.	
● Finetuned both text detection and recognition models to migrate to new datasets.	
● Synthesized training data for handwritten text recognition models with customized demands.	
C++ Intern, Trading System Team, Wizard Quant	07/2022-09/2022
● Developed a data verification system in C++ with parallel support.	
● Implemented a stream computing demo in Flink with a self-built JNI-supported container.	
● Developed a data monitoring system in Python with parallel support and extensible configuration.	
C++ Developer, Browser Kernel Team, ByteDance	07/2019-01/2020
● Presented an in-depth tech-share about the V8 object lifetime and handle subsystem.	
● Jointly developed a customized tracing system for tracking the performance of the browser kernel.	
● Analyze production-time crash reports and located sources of bugs.	

RESEARCH EXPERIENCE

Anchor-based Sparse Subspace Incomplete Multi-view Clustering	04/2022-10/2022
<i>Ao Li, Cong Feng, Zhuo Wang, Yuegong Sun, Zizhen Wang, Ling Sun. Accepted by Wireless Networks.</i>	
● Proposed the idea of combining anchor-based IMC and sparse subspace learning.	
● Rewrote the objective function to utilize auto-gradient optimization and acceleration of PyTorch.	
● Link: https://github.com/cgsdfc/abs2imc.pytorch	
Multi-view Clustering Method for View-unaligned Data	10/2021-03/2022
<i>Ao Li, Cong Feng, Yutong Niu, Shibiao Xu, Yingtao Zhang, Guanglu Sun. Accepted by Journal on Communication.</i>	
● Refined the formulation of joint representation learning and alignment learning as a bi-level problem.	
● Derived and proved the solution steps of the proposed optimization problem.	
● Link: https://github.com/cgsdfc/unaligned-mvc.matlab	
Automatic Evaluation of Generative Dialogue Systems: An Empirical Study	01/2019-06/2019
<i>Cong Feng, Wenge Rong, Jianxin Yang, Haodong Yang, Yuanxin Ouyang, and Zhang Xiong. Submitted to ICONIP19.</i>	
● Implemented a bunch of classical dialogue metrics in Python and benchmarked neural dialogue systems on widely-used datasets.	
● Visualized and analyzed experimental results and derived reasonable conclusions.	

- Link: <https://github.com/cgsdfc/autoeval-dialogue-2019>

CONTESTS & PROJECTS

Contests

- Third Price in the 13th National “Lanqiao Cup” of C/C++ Programming Competition for Postgraduates.

Projects

- A map-reduce k -nearest-neighbor classifier in Java (<https://github.com/cgsdfc/hadoop-knn-classifier>)
- A simple and modular C-like compiler in C++ (<https://github.com/cgsdfc/simplecc>)
- A simple five-stage pipeline MIPS CPU in Verilog (<https://github.com/cgsdfc/mips-pipeline-cpu.verilog>)
- A minimal framework for Python-like programming in VimScript (<https://github.com/cgsdfc/object.vim>)

OPEN-SOURCE & COMMUNITY ACTIVITIES

- Contributed to a bunch of well-tested and documented Python implementations of classical dialogue metrics on Github. (<https://github.com/neural-dialogue-metrics>)
- Maintained six dialogue models proposed by Jiwei Li in LuaTorch. (<https://github.com/cgsdfc/Neural-Dialogue-Generation>)
- Was an active user of Stackoverflow on topics of Linux, C++, and compiler design. (<https://stackoverflow.com/users/8039762/cgsdfc>)

SKILLS

- Languages: Mandarin (native), English (good)
- Programming Langs: Proficiency in Python, C++, Java, Matlab, Lua, etc.
- Development Skills: General knowledge of Linux, Git, Android Studio, etc.
- Data Science Skills: Proficiency in pandas, torch, matlab, keras, seaborn, plotly, etc.
- Writing Skills: Proficiency in word, latex, visio, drawio, etc.

SELF ASSESSMENT

- Lively and cheerful personality, good at communicating with others, like traveling and sports, with good physical fitness.
- Has a passion for knowledge, willing to engage in challenging work, strong adaptability, adapt to new thinking, new ways, and new environment, logical thinking.
- Looking for a better Lab, hoping to play to my strengths and work together to achieve more academic accomplishment.