# Qian Chen

qianchen901005@gmail.com | github.com/qq31415926

## EDUCATION

**East China Normal University**

*Master of Computer Science and Technology* — Sep. 2022 – Present

**Hefei University of Technology**

*Bachelor of Computer Science and Technology* — Aug. 2018 – June 2022

## RESEARCH EXPERIENCE

My research interests include Natural Language Processing, Interpretability and Large Language Models.

### CIDR: A Cooperative Integrated Dynamic Refining Method for Minimal Feature Removal Problem

*AAAI2024 First Author*

- Minimal feature removal problem aims to find the minimum feature set. Previous works rely on monotonic assumptions, which cannot be satisfied in general scenarios.
- Prove that using Integrated Gradients we can transform the original problem into a knapsack problem and propose a plug-and-play method for generating minimum feature candidate sets.
- Extensive evaluation on Eraser benchmarks demonstrate the effectiveness of our method.

### PE: A Poincare Explanation Method for Text Hierarchy Generation

*pre-print First Author*

- To model non-contagious feature interactions, prior studies build the hierarchical attribution tree by enumerating all combinations, neglecting underlying syntax and semantics.
- Propose a hyperbolic probing method and introduce a fast algorithm for generating hierarchical attribution trees.
- Experimental results show the effectiveness of our approach in building high-quality hierarchical explanations.

## PROJECT EXPERIENCE

**Contrastive Learning for Distantly Supervised Relation Extraction** — Sep. 2022 – Jan. 2023

- Advisor: Prof. Xiaofeng He(CS Dept, ECNU), Chengyu Wang(Algorithm Expert, Alibaba Cloud).
- Implemented a contrastive learning framework for entity-level relation extraction.
- Achieved state-of-art performance on NYT10 benchmark.

## INTERNSHIP

**Xiaohong shu inc.** — Sep. 2023 – Nov. 2023

## AWARDS

| | |
|---|---|
| The First Prize Scholarship (**top 10%**) | 2021.11 |
| The Second Prize Scholarship | 2020.11 |
| The Second Prize Scholarship | 2019.11 |

## SKILLS

**Languages**: Mandarin (Native)

**Programming Languages**: Python, C++, LaTeX

**Tools**: Git/Github, Linux shell, VS Code, PyCharm, Markdown

**Relevant Course**: Natural Language Understanding(93/100), Machine Learning Basic(93/100), Linear Algebra(99/100), Probability Theory and Mathematical Statistics(98/100), Advanced Mathematics A(93/100), Advanced Mathematics B(95/100)