

# Chen Chen

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## EDUCATION

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### Guangdong University of Technology

Bachelor of Engineering in Artificial Intelligence

Guangzhou, China

Sep 2020 — Jun 2024

• **CGPA:** 3.47/4.00; **GPA** (Final Two Years): 3.86/4.00; **Rank:** 13/810.

**Dissertation:** *Heterogeneous Subgraph Network with Prompt Learning for Interpretable Depression Detection on Social Media* (Excellent Bachelor Thesis Award, 5/153)

**Core Courses:** Advanced Machine Learning (3.8/4.0), Natural Language Processing (4.0/4.0), Text Information Processing (3.6/4.0), Recognition of Patterns (3.9/4.0), Computer Vision (4.0/4.0), Data Mining (3.9/4.0)

**Math Courses:** Numerical Analysis (3.7/4.0), Optimization Methods (4.0/4.0), Discrete Math (3.9/4.0), Linear Algebra (3.7/4.0), Digital Signal Processing (4.0/4.0), Theory of Probability & Mathematical Statistics (4.0/4.0)

## RESEARCH EXPERIENCE

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**Research Interests:** Social Media Mining, Sentiment Analysis, Text Mining, Natural Language Processing (NLP), and Graph Neural Networks (GNNs)

### Interpretable Depression Detection Method on Social Media Networks Sep 2020 — Jun 2024

*The Graph Neural Networks (GNN) Lab, Guangdong University of Technology*

- Developed an interpretable depression detection method on social media and explored the heterogeneity of social data and the interactivity of social users
- Found that prompt learning can map users' implicit interpretable psychological symbols, and heterogeneous attention network and subgraph contrastive learning can investigate feature-level and user-level interactions
- Secured two invention patents (CN-2023101434276) and three software copyrights (CCPC-2022SR0708926) based on the outcomes

### Enhanced Semantic and Syntactic Graphs

Jun — Jul 2023

*Red Bird Challenge Camp, Hong Kong University of Science and Technology (HKUST)*

- Implemented enhanced semantic and syntactic graphs and evaluated their weights via unsupervised learning for fine-grained sentiment analysis in terms of the motion aspect
- Addressed inefficiency and low interpretability in sentiment analysis for space-constrained devices
- Focused on motion-assisted robots
- Presented the findings in multiple presentations, posters, and videos to several research groups
- Relevant publication work is under process.

## PUBLICATION

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- **Chen Chen**, Mingwei Li, Fenghuan Li, Haopeng Chen and Yuankun Lin. *Heterogeneous Subgraph Network with Prompt Learning for Interpretable Depression Detection on Social Media*. Knowledge-Based Systems, 113215. (**JCR Q1, IF 8.8**)

## INTERNSHIP

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### China Mobile Information Technology Company

Guangzhou, China

*Intern in AI and Big Data Department*

Jun — Aug 2023

- Deployed *ChatGLM2* in a live production setting and optimized prompt words to limit the GPU memory use of a single model to under 2GB
- Introduced *ChatSQL* to enable non-specialist users to interact with databases using natural language
- Improved retrieval accuracy to 85+%, enhancing the model's applicability in diverse data analyses

## AWARDS & FUNDINGS

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### Academic Scholarships

Sep 2020 — Jun 2024

- National Scholarship: Ranked among top 1% in school
- Innovation Scholarship: Awarded to 3% of students
- Excellent Student Scholarships: Awarded to 28% of students

### Fundings

Sep 2020 — Jun 2024

- Natural Science Foundation of *Guangdong* Province (No. 2021A1515012290)
- Guangdong Provincial Key Laboratory of Cyber-Physical Systems (No.2020B1212060069)
- National & Local Engineering Research Center of Intelligent Manufacturing Cyber-Physical Systems

### Company-Sponsored Scholarship

Sep 2020 — May 2023

- 37 Interactive Entertainment Ltd. and *Guangdong* Youxin Foundation

### Competitions

- 14<sup>th</sup> "LanQiao Cup" National Software & IT Professionals Competition (Apr 2023): **2<sup>nd</sup> Prize**
- *Kaggle* Competition "NLP of Disaster Tweets" (Apr 2022): Ranked among **Top 5%**

## TEACHING EXPERIENCE

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### Research Assistant at the *Guangdong* University of Technology

Mar 2021 — Jun 2021

- Instructed a class weekly (~20 students) covering basic Python programming and an introduction to NLP

## MEMBERSHIP

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- Graduates Member (NO.U7669G), *Computer Federation* (CCF)

Sep 2021 — Present

## SKILLS & ACTIVITIES

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- **English Proficiency:** IELTS (Academic) – 7.0 (Overall Score)
- **Programming Skills:** *Python*, *PyTorch*, *TensorFlow*, *JavaScript*, HTML/CSS, C
- **Tools:** MATLAB, *Linux Shell*, *Latex*
- **Volunteer Work:** During the COVID-19 Pandemic (Feb 2021; Provincial Outstanding Volunteer Award)

## REFERENCES

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- **Dr. Fenghuan Li**

*Assistant Professor, School of Computer Science and Technology, Guangdong University of Technology*

URL: <https://dblp.org/pid/07/10130.html>

E-mail: fhli20180910@gdut.edu.cn

- **Dr. Si Li**

*Associate Professor, School of Computer Science and Technology, Guangdong University of Technology*

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- **Prof. Dongning Liu**

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