



Guanming Chen

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EDUCATION AND TRAINING

SEP 2021 – JUN 2024 Beijing, China

MASTER'S DEGREE & DIPLÔME D'INGÉNIEUR Ecole Centrale de Pékin, Beihang University

Field of study Systems Engineering | **Final grade** GPA 3.7/4.0 | **Number of credits** 66

SEP 2017 – JUN 2021 Beijing, China

BACHELOR'S DEGREE Ecole Centrale de Pékin, Beihang University

Field of study Pure & Applied Mathematics | **Final grade** GPA 3.7/4.0, ranking top-10%. | **Number of credits** 217

WORK EXPERIENCE

SEP 2021 – JAN 2022 Beijing, China

TEACHING ASSISTANT SCHOOL OF COMPUTER SCIENCE AND ENGINEERING, BEIHANG UNIVERSITY

- Teaching Assistant for Python Programming: responsible for designing programming assignments, providing comprehensive support in addressing students' queries, and marking examination papers.

PROJECTS

OCT 2022 – JUN 2024

Recommendation Method based on Adaptive Graph Contrastive Learning

- Improve the collaborative filtering algorithm based on graph contrastive learning to solve the problems of noise, data sparsity and popularity bias in recommendation scenarios.
- Design adaptive loss functions based on global structure information for dataset denoising and model debiasing.
- Design a data augmentation method through OOD generalization and causal theory to mitigate model bias.

OCT 2020 – JUN 2024

Smart Education Topic Research

- Research & Survey on educational recommendation, knowledge tracing, academic prediction and student modeling by leveraging various deep learning methods like Transformers, GNN, Knowledge Graph, etc.

OCT 2021 – MAY 2022

Algorithm Module Research of Intelligent Switch Aging Rate for Schneider Electric

- Work based on more than 20,000 lines of source code of *Schneider Electric* intelligent switch module.
- C# code reading, program function analysis, switch aging business logic understanding.
- Create Class Diagram using Unified Modeling Language and algorithm logic diagram for Schneider developers.
- Lead the team to drive project progress and supervise the quality of team work.

OCT 2020 – SEP 2021

Educational Data Mining – Tutor Recommendation Algorithm

- Collect educational data using web crawlers. Educational data analysis, visualization and preprocessing.
- Design recommendation algorithm based on machine learning, and a prototype system for tutor recommendation.

LANGUAGE SKILLS

Mother tongue(s): **CHINESE**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Python (& PyTorch for Deep Learning) | C, C++ | MATLAB | LaTeX | Microsoft Office

● **PUBLICATIONS**

[A Recommendation Algorithm for University Master Tutors Based on Machine Learning.](#)

Chen G, Yin C, Ouyang Y, et al. EDUCON 2022.

[PopDCL: Popularity-aware Debiased Contrastive Loss for Collaborative Filtering.](#)

Liu Z, Li H, **Chen G**, et al. CIKM 2023.

[Is Encoded Popularity Always Harmful? Explicit Debiasing with Augmentation for Contrastive Collaborative Filtering.](#)

Chen G, Qiang W, Ouyang Y, et al. IJCNN 2024.

[SACL: Siamese Adaptive Contrastive Learning for Recommendation.](#)

Bao S, Liu Z, Li C, Zhang J, **Chen G**, Ouyang Y and Rong W. IJCNN 2024.

[A Review of Data Mining in Personalized Education: Current Trends and Future Prospects.](#)

Acknowledged. Frontiers of Digital Education.