

李秋池 Qiuchi Li

Professor, School of Computer Science & Technology

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Areas of Expertise

Natural Language Processing - Large Language Models - Quantum Cognition and Interaction

Education

Ph.D in Engineering, [University of Padua](#) **Padua, IT** 10/2017 - 03/2021

- Marie-skłodowska-curie Early Stage Researcher (ESR)
- Major: information science and technology
- Thesis: Quantum-inspired Language Representation Learning
- Supervisor: Prof. Massimo Melucci

Bachelor of Engineering, [Tsinghua University](#) **Beijing, CN** 10/2017 - 03/2021

- Major: electronic science and information
- Thesis: Weibo(microblog) Sentiment Analysis
- Supervisor: Prof. Ji Wu

Professional Experience

Tenure-track Professor, [Beijing Institute of Technology \(BIT\)](#) **Beijing, CN** 09/2025 - present

- NLPPIR Lab, school of Computer Science and Technology
- Chinese Outstanding Young Talent

Assistant Professor, [University of Copenhagen](#) **Copenhagen, DK** 01/2023 - 05/2025

- Inference and Retrieval Lab (IRLab), Department of Computer Science

Postdoctoral Researcher, [University of Copenhagen](#) **Copenhagen, DK** 01/2021 - 01/2023

- Inference and Retrieval Lab (IRLab), Department of Computer Science
- Advisor: Prof. Christina Lioma

Grants

Language Representation Modelling Based on Quantum Cognitive Computing 01/2026 - 12/2028

- Role: Principal Investigator (PI)
- Science Fund Program for Excellent Young Scientists (Overseas), National Natural Science Foundation of China

Integrated Optical Neural Networks for Information Retrieval (SearchLight) 01/2023 - 08/2024

- Villum Foundation. Project amount: kr.3,000,000
- Role: main participant

Machine Learning for Personalized and Persuasive Job Recommendation (Jobmatch) 01/2021 - 03/2024

- Danmarks Innovationsfond 0175-00005A. Project amount: kr.8,000,000
- Role: main participant

Quantum Information Access and Retrieval Theory and Applications

04/2018 - 01/2021

- Intergovernmental Cooperation and Innovation Program, China Innovation Funding 2017YFE0111900.
- Project amount: ¥800,000
- Role: main participant

Quantum Information Access and Retrieval Theory (QUARTZ)

10/2017 - 09/2020

- European Union's Horizon 2020 research and innovation programme - Marie Skłodowska-Curie grant No. 721321
- Project amount: €3,460,000
- Role: Marie-Curie Researcher

Awards and Honours

- **Best Paper Honorable Mention Award**, PRCV2025 10/2025
- **Outstanding Paper Award**, ACL2025 07/2025
- **Best Explainable NLP Paper Award**, NAACL2019 06/2019
- **Marie-Curie Researcher** 10/2017 - 09/2020

Skills

- **Proceedings co-chair**, ICTIR 2018 & IIR 2019
- **PC member**, ECIR 2023-2024 & SIGIR 2023-2026
- **Reviewer** of many top conferences including ICML, ACL, EMNLP, ICLR, NeurIPS, AAAI

Teaching

- **Matrix Analysis[Undergraduate, Chinese]** 04/2026 - 06/2026
- **Big Data Analysis[Undergraduate, Chinese]** 03/2026 - 05/2026
- **Introduction to Artificial Intelligence[Undergraduate, Chinese]** 03/2026 - 05/2026
- **Big Data Analysis and Applications[Postgraduate, Chinese]** 09/2025 - 12/2025
- **Python Programming for Data Science (PPDS)[Undergraduate]** 2022 - 2025

Selected Publications

- Ben Yao, Prayag Tiwari, **Qiuchi Li***. "Self-supervised Pre-trained Neural Network for Quantum Natural Language Processing". *Neural Networks*, 2025. (*Corresponding Author)
- Yazhou Zhang, Yang Yu, Qing Guo, Benyou Wang, Dongming Zhao, Sagar Uprety, Dawei Song, **Qiuchi Li***, and Jing Qin. "CMMA: Benchmarking Multi-Affection Detection in Chinese Multi-Modal Conversations." *Advances in Neural Information Processing Systems (NeurIPS)*, 2023. (*Corresponding Author)
- **Qiuchi Li**, Dimitris Gkoumas, Alessandro Sordani, Jianyun Nie, and Massimo Melucci. "Quantum-inspired Neural Network for Conversational Emotion Recognition." *Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI2021)*
- **Qiuchi Li**, Dimitris Gkoumas, Christina Lioma, Massimo Melucci. "Quantum-inspired Multimodal Fusion for Video Sentiment Analysis," *Information Fusion*, 2020.
- **Qiuchi Li**, Benyou Wang, and Massimo Melucci. "CNM: An Interpretable Complex-Valued Network for Matching." *The North American Chapter of the Association for Computational Linguistics (NAACL)*, 2019. (**Best Explainable NLP Paper**)
- **Qiuchi Li**, Jingfei Li, Peng Zhang, and Dawei Song. "Modeling Multi-Query Retrieval Tasks Using Density Matrix Transformation," *ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2015.