

# Pengshuo Qiu

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## EDUCATION

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### Bachelor of Science in Educational Psychology

Tohoku EduNLP Lab

Advisor: Yuichiroh Matsubayashi.

Researching on a fusion of humanities and information science that aims to explore human intelligence through computational approaches such as artificial intelligence and machine learning, and to apply them to educational fields.

Apr 2022 - Feb 2026

Tohoku university

## PUBLICATION

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Renrui Zhang, Dongzhi Jiang, Yichi Zhang, Haokun Lin, Ziyu Guo, **Pengshuo Qiu**, Aojun Zhou, Pan Lu, Kai-Wei Chang, Peng Gao, Hongsheng Li (2024). MathVerse: Does Your Multi-modal LLM Truly See the Diagrams in Visual Math Problems? arXiv preprint arXiv:2403.14624.

**Pengshuo Qiu**, Frank Rudzicz, Zining Zhu (2024). Scenarios and Approaches for Situated Natural Language Explanations. arXiv preprint arXiv:2406.05035.

Dongzhi Jiang, Renrui Zhang, Ziyu Guo, Yanmin Wu, Jiayi Lei, **Pengshuo Qiu**, Pan Lu, Zehui Chen, Guanglu Song, Peng Gao, Yu Liu, Chunyuan Li, Hongsheng Li (2024). MMSearch: Benchmarking the Potential of Large Models as Multi-modal Search Engines. arXiv preprint arXiv:2409.12959.

## ACADEMIC EXPERIENCE

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### Research Internship

Multimedia Laboratory

MathVerse Does Your Multi-modal LLM Truly See the Diagrams in Visual Math Problems?

MMSearch: Benchmarking the Potential of Large Models as Multi-modal Search Engines

Collect and clean data.

The paper is accepted by ECCV.

Dec 2023 - Sep 2024

The Chinese University of Hong Kong

### Research Internship

Explainable and Controllable AI Lab

Scenarios and Approaches for Situated Natural Language Explanations.

Create the dataset, define the method to evaluate the performance of LLM, and evaluate.

Advising by Zining Zhu

Jan 2024 - Jul 2024

Stevens Institute of Technology

### Internship

Tohoku Global Learning Center

Be an advisor of groups in the class "Global Seminar".

Oct 2022 - Jan 2023

Tohoku university

### Internship

Frontier Research Institute for Interdisciplinary Sciences

Manage the website of Yasunori Okamoto's lab.

Jan 2024 - Mar 2024

Tohoku university

## AWARDS

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### JASSO Scholarship

Received scholarship from Japan Student Services Organization.

2023

### Tohoku Scholarship

Received scholarship from Tohoku university

2023

### JASSO Scholarship

Received scholarship from Japan Student Services Organization

2022

## OTHER EXPERIENCE

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### Exchange Program

Exchanged at University of York

Feb 2023 - Mar 2023

### Exchange Program

Exchanged at University of California, Davis

Aug 2022 - Sep 2022

## SKILLS

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**Programming:** Python, R **Libraries:** Transformers, Pytorch, Numpy, Pandas, Matplotlib, Scikit-learn

**Tools:** Linux, Git, Django, Streamlit, Langchain, LangGraph

**English:** TOEFL: 98; Speaking:22 (2022)

**Japanese:** Fluent

**Chinese:** Native