

Guangyue Xu

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Looking for full-time LLM scientist/engineering jobs.

Research

Pre-training Large Vision-Language Models, Meta-Learning, Compositional Learning and OOD Generalization

Education

- 2017–Present **Michigan State University, Lansing, MI, USA.**,
Ph.D. in Computer Science and Engineering,
Research Area: NLP and Large Vision-Language Models
Advisors: Dr. Parisa Kordjamshidi and Dr. Joyce Chai
- 2007–2010 **Tsinghua University, Beijing, China.**,
M.S. in Computer Science and Technology,
Advisor: Professor Weimin Zheng
- 2003–2007 **Jilin University, Changchun, China.**,
B.E. in Software Engineering

Publications

- WACV 2024 **GIPCOL: Graph-Injected Soft Prompting for Compositional Zero-Shot Learning**,
Guangyue Xu, Parisa Kordjamshidi, Joyce Chai,
IEEE/CVF Winter Conference on Applications of Computer Vision(WACV) 2024
- EMNLP-Finding 2023 **MetaReVision: Meta-Learning with Retrieval for Visually Grounded Compositional Concept Acquisition**,
Guangyue Xu, Parisa Kordjamshidi, Joyce Chai,
Conference on Empirical Methods in Natural Language Processing(EMNLP) 2023
- ArXiv 2022 **Prompting large pre-trained vision-language models for compositional concept learning**,
Guangyue Xu, Parisa Kordjamshidi, Joyce Chai,
ArXiv, 2022
- MetaNLP@ACL 2021 **Zero-Shot Compositional Concept Learning**,
Guangyue Xu, Parisa Kordjamshidi, Joyce Chai,
Meta Learning and Its Applications to Natural Language Processing (Workshop at ACL 2021)

- IJCAI-ECAI 2018 **Language to Action: Towards Interactive Task Learning with Physical Agents**,
Joyce Chai, Qiaozhi Gao, Lanbo She, Shaohua Yang, Sari Saba-Sadiya, Guangyue Xu,
Joint Conference on Artificial Intelligence and European Conference on Artificial
Intelligence (IJCAI-ECAI) 2018
- MSWiM 2017 **Tracking You Through DNS Traffic: Linking User Sessions By Clustering
With Dirichlet Mixture Model**,
Guangyue Xu, Mingxuan Sun, Junjie Zhang, Dae Wook Kim,
Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems
(MSWiM) 2017
- FSKD 2010 **Tracking You Through DNS Traffic: Linking User Sessions By Clustering
With Dirichlet Mixture Model**,
Guangyue Xu, Weimin Zheng, Haiping Wu, Yujiu Yang,
International Conference on Fuzzy Systems and Knowledge Discovery (FSKD) 2010

Professional Experience

- 2010-2016 **CNOOC Gas and Power Group, Beijing, China,**
Data Scientist
- Establishing risk control framework and institutions for the liquid natural gas (LNG) trading and marketing activities.
 - Building Energy Trading and Risk Management System(ETRM) for CNOOC's natural gas sector.
 - Preparing the setup of CNOOC Energy Trading Exchange (GuangZhou), a spot trading platform for natural gas.
- 2009-2010 **Microsoft Research Asia, Web Search and Mining Group, Beijing, China,**
Intern
- Participating the construction of open-domain semantic mining prototype *NeedleSeek*.
 - Extracting semantic classes and related attributes based using statistical learning methods.
- 2007 **IBM, System Group, Dalian, China,**
Intern
- Building financial reporting systems for banks using *COBOL* running the IBM mainframe.

Awards

- 2023 **Dissertation Completion Fellowship.**, *MSU Graduate School*.

Service and Activities

Reviewer, *EACL 2021, EMNLP 2023, ACM MM 2023, EACL 2023, ACL 2023*

Skills

Programming Languages:, *Python, Julia, C++, JAVA*

Deep Learning:, *PyTorch, TensorFlow*

Native Chinese, Fluent English.

Teaching

- 2020,2021 **CSE 102: Algorithmic Thinking and Programming**, *CSE, MSU*.

- 2022 **CSE 231: Introduction to Programming I**, *CSE, MSU*.
- 2023 **CSE 232: Introduction to Programming II**, *CSE, MSU*.
- 2019,2021 **CSE 440: Introduction to Artificial Intelligence**, *CSE, MSU*.