Ziwei XU — Researcher

📅 June 1995
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🏴 Chinese

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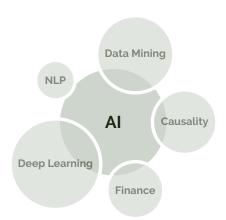in https://www.linkedin.com/in/ziwei-xu-348435172/

WHO AM I?

Experienced **AI researcher and mentor** specializing in **deep learning for data mining**. Proven track record in supervising master students, ensuring business alignment, and supporting innovation projects. Expertise in code review, methodology support, and **academic publication**. Skilled in organizing research events and recruiting talent, and working as a **paper reviewer** for international journals and top-tier proceedings.

EDUCATION

2017. Oct - 2021. Jun	**Ph.D in Computer Science** - Nantes Université, France
2015. Sep - 2017. Jul	**M. ScTech** - Nantes Université, France
2011. Sep - 2015. Jul	**Dual Bachelor - B. Info** - University of Tasmania, Australia
2011. Sep - 2015. Jul	**Dual Bachelor - B. MS** - Shanghai Ocean University, China

(Skills bubble diagram: AI, Data Mining, NLP, Causality, Deep Learning, Finance)

EXPERIENCE

2022. Jun – current

Postdoctoral Researcher
Advanced AI researches on Text
National Institute of Advanced Industrial Science and Technology, Japan

· Causal inference researches
· Financal knowledge graph construction
· Weekly research meeting hosting
· Individual academic publications

`Python / Cloud Server / Neo4J / Cypher / Docker`

2022. Jun – current

Invited Researcher | Academic Collaborator
Innovative AI and NLP Applications on Finance Scenario
Tokyo Institute of Technology, Japan

· Anomaly detection
· Event prediction
· Macroeconomic visualization
· Master students supervision
· Project implementation evaluation
· Collaborative academic publications

`Pytorch / Pandas / Networkx / Linux`

2021. Jun – current

Co-Mentor | Contributor
DBpedia Project - Towards a Neural Extraction Framework
Google Summer of Code, Remote

· Textual relation extraction
· Open-source code review
· Pipeline evaluation
· Collaborative academic publications

`Github / LLM / DBpedia Databus / WikiData SpotLight`

LANGUAGES

- Chinese
- English
- French
- Japanese

FUNDINGS

💰 **Master Scholarship 2015** - Region of Pays de la Loire, France

💰 **Doctoral Scholarship 2016-2021** - Nantes Université, France

PROUD OF

🏆 **2nd position on causality detection** - FinCausal2022@LREC-COLING

🎻 **University orchestra musician in 2014**

☑ International Conferences

1. (accepted) Xu, Z. & Ichise, R. Exploring Causal Chain Identification: Comprehensive Insights from Text and Knowledge Graphs. DaWak **2024**, Italy. (Level B)

2. (accepted) Xu, Z. & Ichise, R. Comparing Foundations: Insights into the Construction of Financial Causal Knowledge Graphs with and without Ontology. JSAI **2024**, Japan.

3. (accepted) Ananya, A., Tiwari, A., Mihindukoolasuriya, N., Soru, S., Xu, Z. & Moussallem, D. Towards Harnessing Large Language Models as Autonomous Agents for Semantic Triple Extraction from Unstructured Text. TEXT2KG@ESWC**2024**, Greece. (Level A)

4. Xu, Z., Takamura, H. and Ichise, R. A Framework to Construct Financial Causality Knowledge Graph from Text, IEEE ICSC **2024**, USA.

5. Xu, Z., Nararatwong, R., Kertkeidkachorn, N., & Ichise, R. 2023. Improving Financial Terminologies Recognition regarding Morphological Inflection. JSAI **2023**, Japan.

6. Kertkeidkachorn, N., Nararatwong, R., Xu, Z. and Ichise, R. FinKG: A Core Financial Knowledge Graph for Financial Analysis, IEEE ICSC **2023**, USA.

7. Xu, Z., Nararatwong, R., Kertkeidkachorn, N., & Ichise, R. 2022. iLab at FinCausal 2022: Enhancing Causality Detection with an External Cause-Effect Knowledge Graph. FNP@LREC**2022**, France. (Level A)

8. Huang H., Harzallah M., Guillet F., Xu, Z. Core-Concept-Seeded LDA for Ontology Learning. KES **2021**, Poland. (Level B)

9. Xu, Z., Harzallah M., Guillet F., Ichise R. Modular Ontology Learning with Topic Modelling over Core Ontology. KES **2019**, Hungary. (Level B)

10. Xu, Z., Harzallah M., Guillet F. Comparing of Term Clustering Frameworks for Modular Ontology Learning. KEOD **2018**, Spain.

☑ Journals and Book Chapters

1. (accepted) Xu, Z., Takamura, H. and Ichise, R. FinCaKG: A Framework to Construct Financial Causality Knowledge Graph from Text. International Journal of Semantic Computing **2024**.

2. Xu, Z., Harzallah, M., Guillet, F., & Ichise, R. Towards a Term Clustering Framework for Modular Ontology Learning. In International Joint Conference on Knowledge Discovery, Knowledge Engineering, and Knowledge Management (pp. 178-201). **2018**. Springer, Cham.