

Yutong FEI

PhD student in Information and
Communication Sciences

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PROFILE SUMMARY

PhD student with a multidisciplinary background, specializing in semantic text corpus analysis and scientific information communication & knowledge dissemination within the digital society.

EDUCATION

- April 2022 - now **PhD student in Information and Communication Sciences, *Université Claude Bernard Lyon 1* | *ELICO Research Team in Information and Communication Sciences*, Lyon, FRANCE**
- PhD Thesis under the supervision of [Chérifa Boukacem-Zeghmouri](#) and [Marc Bertin](#), funded by the French National Research Agency ([Projet TheoScit](#)).
 - **PhD Subject** : Study and classification of citation contexts for the construction of semantic relational indicators.
 1. Analyze citation contexts to understand citation semantics, which refers to why and how articles are cited, while taking into account multidisciplinary aspects.
 2. Constitute a corpus of citation contexts annotated with different citation functions for reuse, to better understand relationships between scientific articles through citation practices.
 - Participated in Arqus (European University Alliance) Mentoring Program from Oct. 2023 to June 2024 (Mentor : Dr. [Piotr Malak](#), **Wrocław University, POLAND**).
 - Participated in the workshop " Scholarly Reading and Writing in The Age of AI " at **Johannes Gutenberg-Universität Mainz, GERMANY**, in March 2023.
 - Participated in the award ceremony for outstanding doctoral theses at **Universität Leipzig, GERMANY**, in Nov. 2022.
- 2019 - 2021 **Engineer Diploma in Data Science, *École Centrale de Nantes*, Nantes, FRANCE**
- **Competences** : Natural Language Processing, Signal and Image Processing, Automatic Speech Recognition.
- 2015 - 2019 **Bachelor Degree in Environmental engineering, *Harbin Institute of Technology*, Harbin, CHINA**
- International exchange student at *École Centrale de Nantes*, FRANCE, from Sept. 2018 to May 2019.
 - Participated in the Career Pathways to International Organizations Program at the University of California, Los Angeles (**UCLA**) in the **United States** for three weeks in Jan. 2017.

TEACHING EXPERIENCE

- Oct. 2022 - now **Teaching assistant (ACE) (179 hours Teaching/Observing in French), *Department of Computer Science* at *Université Claude Bernard Lyon 1***
- Master Program IMST (Scientific and Technical Information and Mediation)
 - Bachelor Licence Pro DIST (Scientific and Technical Data and Information)
 - Bachelor Computer Science

WORK EXPERIENCE

- April - Sept. 2021 **Data Scientist NLP, *Datalab* | *General Directorate of the National Gendarmerie (DGGN)*, Issy-les-Moulineaux, FRANCE**
- Developed and trained a coreference resolution language model for French spoken text and implemented the code using Python and PyTorch for deep learning framework.
 - Performed automatic semantic analysis of text corpus collected from the online pre-complaint platform

PUBLICATIONS

Peer-reviewed journal papers

- Fei, Y. and Boukacem-Zeghmouri, C. (2025). Classification des contextes de citation : la dimension sémantique, entre enjeux de recherche d'information et stratégies industrielles. *Etat de l'art critique et perspectives de recherches pour les SIC. Études de Communication*, 64.

Conference papers

- Fei, Y. (2024). Classification des contextes de citation : Exploration des relations sémantiques des citations à l'ère de la prolifération de la production scientifique. In *Actes des 15èmes Doctorales de la SFSIC (5e édition Arts • SIC • Culture)*. Doctorales 2024 de la SFSIC, Nancy, France. <https://www.sfsic.org/evenements-sfsic/doctorales-sfsic/doctorales-sfsic-2024/>
- Fei, Y. and Bertin, M. (2022). The multilingual aspect of citation contexts. In *Proceedings of the 26th International Conference on Science, Technology and Innovation Indicators (STI 2022)*, Granada, Spain. <https://doi.org/10.5281/zenodo.6957504>

CONFERENCES AND PRESENTATIONS

- Fei, Y. (2024, June 6-7th). *Classification des contextes de citation : exploration des relations sémantiques des citations à l'ère de la prolifération de la production scientifique* [Conference presentation]. Doctorales de la SFSIC 2024. Nancy, France. <https://www.sfsic.org/evenements-sfsic/doctorales-sfsic/doctorales-sfsic-2024/>
- Fei, Y. (2024, February 16th). *Classier les citations pour leurs dimensions sémantiques : comment les chercheurs citent leurs références différemment selon les disciplines ?* [Seminar presentation]. Journée des doctorant.e.s 2023 – 2024. Lyon, France. <https://elico-recherche.msh-lse.fr/manifestations-scientifiques-fr/journee-des-doctorant-e-s-2023-2024>
- Fei, Y. (2023, February 24th). *Enjeux de la contextualisation des citations dans les SIC ?* [Seminar presentation]. Journée des doctorant.e.s 2022 – 2023. Lyon, France. <https://elico-recherche.msh-lse.fr/manifestations/journee-des-doctorant-es-2023>
- Fei, Y., & Bertin, M. (2022, September 7-9th). *The multilingual aspect of citation contexts ?* [Conference presentation]. STI 2022 : The 26th International Conference on Science, Technology and Innovation Indicators. Granada, Spain. <https://sti2022.org/>
- Fei, Y. (2022, July 4-7th). *Présentation du projet ANR TheoScit* [Conference presentation]. CIRCLE 2022 : The 2nd Joint Conference of the Information Retrieval Communities in Europe. Samatan, France. <https://www.irit.fr/CIRCLE/>

LANGUAGES

English	C2
French	DALF C2
Chinese	Native
Korean	Notions

SKILLS

- **Programming** : Python (PyTorch, TensorFlow, Keras, SpaCy, NLTK, Pandas, Scikit-learn, XGBoost, SciPy, Matplotlib, Seaborn), SQL, MATLAB, HTML, C++, Git
- **Document Creation** : Microsoft Office Suite, LaTeX, Markdown
- **System** : Linux