



YUTONG FEI

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EDUCATION

PhD student | *Communication and Information Sciences*

April 2022 – now

Université Claude Bernard Lyon 1 | ELICO: Lyon Research Team in Information and Communication Sciences

Lyon, France

- Subject : Study and classification of citation contexts for the construction of semantic relational indicators
- Reflect on the ontological organizations of citation contexts, taking into account the interdisciplinary aspect.
- Constitute a corpus by mobilizing the existing ontology or semantic web, considering technological advances such as machine learning and deep learning.
- Think about the ethical and moral framework of semantic bibliographic indicators.

Master of Engineering | *Signal and Image Processing*

Sept. 2019 – Sept. 2021

École Centrale de Nantes | Department of Automatic Control and Robotics

Nantes, France

Bachelor of Engineering | *Environmental Engineering*

Sept. 2015 – June 2019

Harbin Institute of Technology | School of Marine Science and Technology

Harbin, China

TEACHING EXPERIENCE

Teaching assistant (ACE) (64 hours Teaching/Observing)

Oct. 2022

Department of computer science | Université Claude Bernard Lyon 1

Lyon, France

- Master Program IMST (Scientific and Technical Information and Mediation)
- Bachelor Licence Pro DIST (Scientific and Technical Data and Information)
- Bachelor Computer Science

WORK EXPERIENCE

Data Scientist NLP

April 2021 – Sept. 2021

Director General of the National Gendarmerie (DGGN)

Issy-les-Moulineaux, France

- Created an end-to-end coreference resolution system for French to improve the online pre-complaint service.
- Fine-tuned the deep learning language model CamemBERT on the annotated French corpus ANCOR.
- Analyzed results and adjusted hyper-parameters to improve model performance.

CONFERENCES AND PRESENTATIONS

The multilingual aspect of citation contexts

Sept. 2022

STI 2022 : The 26th International Conference on Science, Technology and Innovation Indicators

Granada, Spain

- <https://sti2022.org/>

Study of citation contexts for a construction of semantic relational indicators

July 2022

CIRCLE 2022 : The 2nd Joint Conference of the Information Retrieval Communities in Europe

Samatan, France

- <https://www.irit.fr/CIRCLE/>

PUBLICATIONS

- Yutong Fei and Marc Bertin. The multilingual aspect of citation contexts. In *Proceedings of the 26th International Conference on Science, Technology and Innovation Indicators (STI 2022)*, Granada, Spain, Sep 2022

SKILLS

Languages: English (C2), French (DALF C2), Chinese (Native), Korean(Notions)

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