# 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        Shandong, 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