

Nicolas Gutehrle

PhD. student in NLP

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Education

- October 2020 – Current **PhD. student in Natural Language Processing**, *Université de Franche-Comté*, Besançon, France, Centre de Recherches Interdisciplinaires et Transculturelles (CRIT).
PhD thesis title:
"Extraction and ontological modelling of actors and places for the exploitation of the documentary funds of the Bourgogne Franche-Comté Region (EMONTAL)" under the supervision of Dr. Iana Atanassova
- 2016–2018 **MSc "Languages and Foreign Cultures" (LLCER), specialty Natural Language Processing**, *Université de Franche-Comté*, Besançon, France, Mention Très Bien.
 - MSc thesis title: *"Langue contrôlée pour un système de messages et alertes dans un environnement de mobilité : gestion de l'ambiguïté phonologique"* under the supervision of Pr. Sylviane Cardey and Dr. Iana Atanassova
 - End-of-studies internship: *"Perception of smart objects and cities"* under the supervision of Pr. Isam Shahrour et Dr. Natalia Grabar at *Université de Lille*, France
- 2013–2016 **BSc "Languages and Foreign Cultures", specialty English and Natural Language Processing**, *Université de Franche-Comté*, Besançon, France, Mention Bien.
 - Third year of study spent abroad at *National University of Ireland Galway* with the Erasmus program

Experiences

Work experiences

- April – July 2022 **Research Internship**, *Digital Science Center*, University of Innsbruck, Austria.
Under the supervision of Professor **Adam Jatowt**
 - Research work in an interdisciplinary and international environment
 - Creation of new international collaborations
 - Discovery of the culture of a foreign country
- August 2019 – July 2020 **Data Analyst**, *OnlineFormaPro*, Vesoul, France.
 - Research and Development in Deep Learning
 - Integration of the xAPI norm
 - Research in developing chatbots and speech synthesis

March 2019 – **Temporary worker in "AME" project**, *Université de Franche-Comté*, Besançon, France, MSHE C.N. Ledoux.

- Digitizing and indexing archive collections from French author Jean-Paul Goux (photographs, interview transcriptions, handwritten notes, audio tapes)

September 2018 – March 2019 **Research engineer in "ORTEP Revitalisation" project**, *Université de Franche-Comté*, Besançon, France, MSHE C.N. Ledoux.

- Digitization and automatic analyses of local newspapers archives published between 1840 and 1939
- Development of a web interface for the recognition, extraction and geo-resolution of Named Entities in newspaper ads
- Presentation of a research poster at the "*HumaSpatia*" workshop in MSH Dijon

Other experiences

May 2021 **Helsinki Digital Humanities Hackathon 2021**, Online.
"Space Wars" project

March 2020 **Collaborathon COVID-19**, Online.
"Inventaire des masques" project

October 2019 **Hacking Health 2019**, Besançon, France.
"Pic'Peaucket" project (management and analyses of photographs in dermatology)

Teaching Activities

November 2021-2022 **Initiation to document redaction with LaTeX**, *URFIST*, Lyon, France.

September 2020 – Current **Teaching assistant in MSc "Languages and Foreign Cultures" (LLCER), specialty Natural Language Processing**, *Université de Franche-Comté*, Besançon, France, Centre de Recherches Interdisciplinaires et Transculturelles (CRIT).

- Phonetic modelling (lectures and tutorial classes)
- Cognitives methods and ML (tutorial classes)
- Software engineering for NLP (tutorial classes)
- Scientific writing workshop

September – December 2018 **Teaching assistant in MSc "Languages and Foreign Cultures" (LLCER), specialty Natural Language Processing**, *Université de Franche-Comté*, Besançon, France, Centre de Recherches Interdisciplinaires et Transculturelles (CRIT).

- Phonetic modelling (lectures and tutorial classes)

Publications

Scientific articles

- [1] Nicolas Gutehrle and Iana Atanassova. "Processing the structure of documents: Logical Layout Analysis of historical newspapers in French". In: *Journal of Data Mining & Digital Humanities NLP4DH* (mai 2022). DOI: 10.46298/jdmdh.9093. URL: <https://jdmdh.episciences.org/9614>.
- [2] Nicolas Gutehrle, Iana Atanassova, and Sylviane Cardey-Greenfield. "Langue contrôlée pour un système de messages et alertes dans un environnement de mobilité : gestion de l'ambiguïté phonologique". In: *FUTURMOB-17: Préparer la transition vers la mobilité autonome*. Université

Bourgogne Franche-Comté and Université de Technologie de Belfort Montbéliard. Montbéliard, France, Sept. 2017.

- [3] Nicolas Gutehrlé and Virginie Lethier. “Cartographier les données textuelles des petites annonces du Salinois (1840-1939)”. In: *Journée d'études Humaspatia*. Université Bourgogne Franche-Comté. Dijon, France, Feb. 2019. URL: https://www.researchgate.net/publication/331563418_Cartographier_les_donnees_textuelles_des_petites_annonces_du_Salinois_1840-1939.
- [4] Nicolas Gutehrlé et al. “SpaceWars: A Web Interface for Exploring the Spatio-temporal Dimensions of WWI Newspaper Reporting”. In: *HistoInformatics 2021 – 6th International Workshop on Computational History*. Sept. 2021.
- [5] Gutehrlé Nicolas. “Langue contrôlée pour un système de messages et alertes dans un environnement de mobilité : gestion de l'ambiguïté phonologique”. MA thesis. Université de Franche-Comté, 2018.

Blog articles

- [1] Axel Jean-Caurant et al. *Where did it happen ? : Spatial imaginaries of World War I*. 2021. URL: <https://www.newseye.eu/fr/le-blog/news/where-did-it-happen-spatial-imaginaries-of-world-war-i/>.

Service

Reviewing

- Reviewer for *Journal on Computing and Cultural Heritage*

Scientifique dissemination

- Participation to the *Expérimentarium* (December 2021) workshop
- Participation to the *Speed Searching* event in the context of the *European's Researchers Night* (September 2022)

Skills

Languages		Computer	
French	Native	Programming	Python, Java
English	C2	Libraries	NLTK, Spacy, Pandas, Scikit-learn, PyTorch, HuggingFace
Spanish	B1	Web	HTML, CSS, JavaScript, Streamlit, Panel, Flask
German	A1	Databases	SQL (SQLite, PostgreSQL, MySQL), MongoDB, BaseX
Irish	Notions	Markup	LaTeX, XML (TEI, ALTO)
		IDE	PyCharm, Jupyter
		Other softwares	oXygen, ABBYFineReader, TXM, LibreOffice

Hobbies

- Cooking
- Music (multi-instruments and composition)
- Reading, cinema, video games
- Learning foreign languages
- Hiking