

Nicolas Gutehrle

PhD. student in NLP

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Education

- 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

- 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
- August 2019 – **Data Analyst**, *OnlineFormaPro*, Vesoul, France.
- July 2020
- 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.
- May 2019
- 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'Peaocket" project (management and analyses of photographs in dermatology)

Teaching Activities

- 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)
- September – Decembre 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, 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.
- [2] Nicolas Gutehrle 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.
- [3] Gutehrle 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/>.

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	L ^A T _E X, 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