

# 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'Peaucket" project (management and analyses of photographs in dermatology)

## Teaching Activities

- November 2021 **Initiation to the redaction of documents 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)
- 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 and Iana Atanassova. *Dataset for Logical-layout analysis on French historical newspapers*. Version 1.0. Zenodo, Oct. 2021. DOI: 10.5281/zenodo.5752440. URL: <https://doi.org/10.5281/zenodo.5752440>.
- [2] Nicolas Gutehrle and Iana Atanassova. "Logical Layout Analysis Applied to Historical Newspapers". working paper or preprint. Dec. 2021. URL: <https://hal.archives-ouvertes.fr/hal-03468972>.
- [3] 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.
- [4] 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](https://www.researchgate.net/publication/331563418_Cartographier_les_donnees_textuelles_des_petites_annonces_du_Salinois_1840-1939).

- [5] Nicolas Gutehrle et al. "SpaceWars: A Web Interface for Exploring the Spatio-temporal Dimensions of WWI Newspaper Reporting". In: CEUR Workshop Proceedings, Oct. 2021. URL: <https://hal.archives-ouvertes.fr/hal-03468926>.
- [6] 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	
<b>French</b>	Native	<b>Programming</b>	Python, Java
<b>English</b>	C2	<b>Libraries</b>	NLTK, Spacy, Pandas, Scikit-learn, PyTorch, HuggingFace
<b>Spanish</b>	B1	<b>Web</b>	HTML, CSS, JavaScript, Streamlit, Panel, Flask
<b>German</b>	A1	<b>Databases</b>	SQL (SQLite, PostgreSQL, MySQL), MongoDB, BaseX
<b>Irish</b>	Notions	<b>Markup</b>	LaTeX, XML (TEI, ALTO)
		<b>IDE</b>	PyCharm, Jupyter
		<b>Other softwares</b>	oXygen, ABBYFineReader, TXM, LibreOffice

## Hobbies

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