

Fanny Ducl

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Education

Master in Linguistics and Computer Science

2021 –

Sorbonne Université

Paris, France

- M2: Ongoing. Thesis on the Evaluation of stereotypical biases in auto-regressive language models.
- M1: Valedictorian. Thesis on the Analysis of claims in NLP articles by unsupervised learning.

Bachelor in Language Sciences, Computer Science specialization, with highest honours

2018 – 2021

Sorbonne Université

Paris, France

Research Experience

Research Internship (M2 - 35h/week)

March 2023 - August 2023

LORLA, supervised by Karĕn Fort and Aurĕlie Nĕvĕol

Nancy, France

- Achieved state of the art on stereotypical biases in autoregressive language models with a sociological approach
- Experiments with manipulation and fine-tuning of masked and autoregressive language models for bias assessment and limitations of current methods
- Participation in the international research project MultiCrowsPairs, along with 20 other researchers and students from 8 different countries

Research Assistant (Part-time CDD - 17h/week)

September 2022

CERES, Sorbonne Université, supervised by Gaĕl Lejeune

Paris, France

- Participation in a project to map researchers according to their publications : wrote Python scripts to test new vectorization and clustering techniques, created graphs in Gephi, reorganized the Github repository with proper documentation

Research Internship (M1 - 35h/week)

July 2022 - September 2022

LORLA, supervised by Karĕn Fort and Maxime Amblard

Nancy, France

- Establishing a state of the art on the linguistic concepts of *hedging* and *claims*
- Creation and pre-processing of ACL articles corpus
- Extraction of *claims* in the corpus and classification by using *clustering* methods in Python
- Evaluation of unsupervised learning methods

Research Internship (L3 - 35h/week)

June 2021 - August 2021

LORLA, supervised by Karĕn Fort, Gaĕl Lejeune and Yves Lepage

Nancy, France

- Manual annotation of NLP articles (TALN, LREC, ACL)
- Automatic classification of these articles depending on whether the studied language is mentioned
- Work subsequently accepted at LREC and TALN

Other Contributions

Tutor in Computer Science for Language Science Students

September 2021 - March 2023

Sorbonne Université

Paris, France

- Shifts of 3 hours per week with students of the Bachelor in Language Sciences needing help to understand and complete their courses, exercises and projects in Python programming, Web development (HTML and CSS), language engineering (TXM, Antconc, GATE), first order logic, ...

Peer-reviewing

- Secondary reviewer for ACL 2023 (1 article)
- Secondary reviewer for TALN 2023 (1 article)

Publications

International peer-reviewed conferences

Do we Name the Languages we Study? The #BenderRule in LREC and ACL articles. Fanny Ducel, Karën Fort, Gaël Lejeune, Yves Lepage. LREC 2022 - International Conference on Language Resources and Evaluation (LREC), Jun 2022, Marseille, France. - *CORE C, QUALIS B2*

Participation : Oral plenary presentation at LREC, manual annotation of NLP articles, constitution and pre-processing of a corpus of articles from ACL Anthology, implementation of automatic classifiers in Python, analysis and formatting of results, writing of the article with an ethical approach calling for diversity, realization of the slides for the presentation

National peer-reviewed conferences

Langues « par défaut » ? Analyse contrastive et diachronique des langues non citées dans les articles de TALN et d'ACL. Fanny Ducel, Karën Fort, Gaël Lejeune, Yves Lepage. Conférence sur le Traitement Automatique des Langues Naturelles (TALN), Jun 2022, Avignon, France.

Participation : This is a second part of the work presented at LREC, so the tasks are very similar, but on different data. Production and presentation of the poster at TALN and same tasks as for LREC.

Submitted

The Elephant in the Room: Analyzing the Presence of Big Tech in Natural Language Processing Research. Mohamed Abdalla, Jan Philip Wahle, Terry Ruas, Aurélie Névéol, Fanny Ducel, Saif Mohammad, Karën Fort.

Participation : Frequent meetings and discussions with 6 other scientists from 3 different countries involved in the project. Extraction, analysis and formatting of raw data by Python scripts, manual annotations, proofreading and corrections of the article.

Master Thesis

Analyse des claims dans les articles de Traitement Automatique des Langues à l'aide d'une méthode par apprentissage non supervisé. Fanny Ducel. Available on https://github.com/FannyDucel/MemoireM1Claims/blob/master/ducel_fanny_memoirem1.pdf.

Specialized Skills

Languages: Python, SQL, SPARQL, Voice XML, UML, HTML, CSS, Java, C++, \LaTeX , Markdown

NLP tools: TXM, Antconc, Unitex, Praat, GREW-match, GATE, HTK, MBROLA, espeak, audeep

Other tools: Neo4j, GitHub, Apache Solr, GANT, Agile (Scrum), Gephi, Twitter API

Python libraries: Scikit-learn, SpaCy, NLTK, CoreNLP, Gensim, Pandas, LangChain, Pytorch

Other Interests

Member of the *Queer in AI* community: Interactions and resources exchanges for a better inclusivity and diversity in the field of Artificial Intelligence.

Trumpet Player: Member of the School of Arts of Orly for 8 years.