Léo Jacqmin

PhD Candidate

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Education

Aix-Marseille University   *Marseille, France*

PhD in Computer Science   *October 2021 - September 2024 (est.)*

- Supervised by Lina Maria Rojas Barahona (Orange) and Benoit Favre (Aix-Marseille Université)

IDMC - University of Lorraine   *Nancy, France*

MSc in Natural Language Processing   *September 2019 - August 2021*

- Highest honors, GPA: 16.7/20, rank: 2/22

University of Liège   *Liège, Belgium*

BA in Translation and Interpreting   *September 2015 - June 2018*

- Exchange semester at the University of Innsbruck

Experience

Orange   *Lannion, France*

PhD Researcher   *October 2021 - September 2024*

- Thesis' title : Dialogue state tracking in long dialogue contexts and in alignment with knowledge bases

Cognate AI   *Remote*

NLP Consultant   *June 2021 – August 2021*

- Built a pedagogical tool for the automatic correction of written productions of learners of English
- Combined a deep learning model with rule-based approaches to provide error correction and personalized feedback

Orange Labs   *Lannion, France*

Research Intern   *March 2021 – August 2021*

- Researched multitask approaches to multilingual aspect-based sentiment analysis
- Leveraged heterogeneous data with various annotation schemes to train and evaluate Tranformer models for sequence tagging
- Proposed and implemented methods to increase robustness via domain adaptation and data augmentation using label projection

ATILF - CNRS   *Nancy, France*

Research Intern   *June 2020 – August 2020*

- Collected and cleaned over 30 GB of raw textual data for training word embeddings
- Automated a training and evaluation pipeline for sets of word embeddings (Word2vec, fasttext, GloVe, ELMo and BERT)
- Researched data distribution for definition modeling with SentencePiece using data stored in RDF format

Publications

L. Jacqmin, L. Rojas Barahona, B. Favre "Do you follow me?": a Survey of Recent Approaches in Dialogue State Tracking, In Proceedings of the 23rd Annual Meeting of the Special Interest Group on Discourse and Dialogue, 2022.

L. Jacqmin, "« Est-ce que tu me suis ? » : une revue du suivi de l'état du dialogue", in Actes de la 29e Conférence sur le Traitement Automatique des Langues Naturelles. Volume 2 : 24e REncontres jeunes Chercheurs en Informatique pour le TAL (RECITAL), 2022.

L. Jacqmin, G. Marzinotto, J. Gromada, E. Szczekocka, R. Kołodyński, G. Damnati, "SpanAlign: Efficient Sequence Tagging Annotation Projection into Translated Data applied to Cross-Lingual Opinion Mining", in Proceedings of the Seventh Workshop on Noisy User-generated Text (W-NUT 2021), 2021.

E. Calò*, **L. Jacqmin***, T. Rosemplatt*, M. Amblard, M. Couceiro, A. Kulkarni, "GECko+: a Grammatical and Discourse Error Correction Tool", in Actes de la 28e Conférence sur le Traitement Automatique des Langues Naturelles. Volume 3: Démonstrations, 6 2021.

Projects

GECko+

- Implemented a writing assistant tool using two state-of-the-art models for grammar error correction and sentence ordering
- Built a web app that corrects spelling, grammatical, and discourse mistakes given a user input text using Flask, CSS and HTML
- Deployed this web app using Docker and Azure: *github.com/psawa/gecko-app*

Languages

French	Native Proficiency
English	Full Professional Proficiency (TOEFL 108/120)
German	Professional Working Proficiency

Skills

Programming languages	Python, SQL, HTML, CSS
Development tools	Bash (sed, awk, grep, ...), Git, Docker, Azure, Unix (Ubuntu)
Libraries	scikit-learn, PyTorch, spaCy, Hugging Face Transformers, pandas, NumPy, Matplotlib, Gensim