

Matteo Guida

00 (49) 176 3077 0855 | ✉ matteo.guidaa@gmail.com | 🔗 linkedin.com/in/matteo-guida-7872341b3/ | 🐙 GitHub

Personal Profile

Ph.D. @ University of Melbourne, School of Computing and Information Systems. Supervised by Prof. Dr. Lea Frermann, Prof. Dr. Ed Hovy, Dr. Yulia Otmakhova. Investigating automatic detection venues of framing and misinformation.

Education

University of Melbourne

Doctorate of Philosophy (Ph.D.)

- Department of Engineering and IT, School of Computing and Information Systems

Melbourne, Australia

April 2024 -

University of Konstanz

Masters in Speech and Language Processing

- Main track: Natural Language Processing
- **Relevant Courses:** Corpus Linguistics with Python, Deep Learning with Python, Machine Language Processing, Statistics with R, Ethical AI, Linguistics, Finite State Morphology
- Thesis: Automatic Hate Speech Detection in Italian Text using Deep Learning Techniques (BERT and Llama)

Konstanz, Germany

Oct 2021 - February 2024

University of Trieste

Bachelor in Applied Linguistics

- Thesis: "German in a non-European multilingual context: the case of Namibia".

Trieste, Italy

Oct 2018 - July 2021

Work Experience

DHL Group

Working Student, Natural Language Processing

- Fine-tuning of LLMs for domain specific content generation, entity recognition and text summarization, Generative Question-Answering with LangChain, Custom Machine Translation & Evaluation, Data pre-processing, cleaning and annotation
- **Technical Skills:** Machine Learning, Kubernetes (Kubeflow), Azure, Large Language Models, Langchain, Generative AI, Deep Learning for NLP, Git, RestAPIs, AWS

Bonn, Germany

September 2023 - February 2024

Deutsche Post DHL Group

Intern in Linguistic Data Management

- Data Cleaning & Annotation, Data-Specific Customized NER Models for terminology extraction, evaluation of models, (Neural) Machine Translation
- **Technical Skills:** Programming in Python, NLP libraries, Deep Learning, Git, RestAPIs, AWS, Google Cloud AutoML, Prodigy, Tableau

Bonn, Germany

March 2023 - August 2023

University of Konstanz

Teaching Assistant for the MA Course "Machine Language Processing"

- This course offers both a theoretical and practical introduction into Natural Language Processing and covers a variety of fundamental topics in the field of Speech and Language Processing (including Regular Expressions, Text Pre-Processing, supervised and unsupervised ML, information extraction, dialogue systems) and a practical introduction to Linux.
- **My tasks:** Weekly tutorial to help students with Linux-related issues (useful command lines and RegEx for computational linguists) and theoretical NLP concepts, correction and grading of assignments.

Konstanz, Germany

Oct 2022 - Feb 2023

University of Konstanz

Student Research Assistant

- Project on sarcasm detection which aims at finding what contexts might trigger (or not) sarcasm and if multimodal clues also play a role in it.
- **Technical Skills:** Programming in Python and R (Data Cleaning & Preparation), Excel, evaluation of NLP models, Deep Learning (Word Embeddings, BERT, Transformers)

Konstanz, Germany

Nov 2022 - Feb 2023

Skills & Knowledge

Programming	Python (Pandas, PyTorch, NumPy, Scikit-learn, Spacy, NLTK, Core NLP, Stanza, Gensim, TensorFlow, Keras), R
Miscellaneous	Linux, Shell (Bash/Zsh), \LaTeX (Overleaf/R Markdown), Microsoft Office, Git
Machine Learning	Neural Networks, Linear Regression, Logistic Regression, TF-IDF, evaluation metrics, Word Embeddings (Word2Vec, GloVe)
& Others	Deep Learning architectures (CNNs, RNNs, LSTMs, Transformers), Prodigy, Tableau, APIs

Workshops

Basque Summer Tutorial in Language Documentation

Larrau/Tardets-Sorholus, France

16 - 26 Aug 2022

- Summer School in collaboration with the University of Bordeaux, the French-German University, the University of Konstanz, IKER, the University of Pau and Pays de l'Adour, and the CNRS.
- Conceptual, technical and ethical issues in Language Documentation and endangered languages, along with actual fieldwork in-situ (conducting interviews and analyzing data)
- Research Proposal: an analysis of vowels production in Zuberoan Basque
- **Technical Skills:** Praat, ELAN, Audacity, R

Languages

Italian	Native proficiency
English	Full professional proficiency
French	Full professional proficiency
German	Full professional proficiency
Spanish	Full professional proficiency

Interests

Linux, Linguistics, Natural Language Processing, Ethical AI

References available upon request.