

Giulio Cusenza

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Education

- Oct 2021 - present** • **Bachelor's in Computational Linguistics @ University of Tübingen**
Attending the 6th semester of the Computational Linguistics bachelor's degree at the University of Tübingen with an average grade of 1,25 (A grade).
- Jun 2021** • **High school degree with A grade**
Graduated with 100/100 at the classical high school "Liceo Classico Umberto I" (key subjects: Latin, Ancient Greek, Philosophy) in Palermo, Italy.

Experience

- Jan 2024 - May 2024** • **Intern in Data & Technology @ MHP – A Porsche Company**
Automating company processes by applying Machine Learning and NLP to Robotic Process Automation with UiPath.
- Oct 2022 - Dec 2023** • **Programming teaching assistant @ University of Tübingen**
Tutored over 70 students in the courses "Data structures and algorithms for computational linguistics" I, II (Java) and III (python).
- Apr 2023 - Sep 2023** • **Research assistant @ University of Tübingen**
Worked on a project on the automatic identification of language borrowing and contact through NLP and bioinformatic methods (DFG Center for Advanced Studies "[Words, Bones, Genes, Tools](#)").

Skills

IT:

- **Python** (advanced), **Java** (intermediate).
- Machine learning projects with **pytorch**.
- Experience with **regex**, **context-free** grammars, and **finite state automata**.
- Experience with web development: **HTML**, **CSS**, **JS**, **Firebase** ([example](#)).
- Familiarity with **bash**, **R**, **SQL**, **Prolog**.
- Version control: **Git**.
- Media: **Microsoft Office**, **LaTeX**.

Languages:

- Spoken: **Italian** (native), **English** (C2), **French** (C1), **Russian** (B2), **German** (B2).
- Natively understood: **Sicilian**, **Arbëresh**.
- Written: **Latin**, **Ancient Greek**.
- Basic: Dutch, Spanish, Korean.

Other:

philosophy literary analysis





Traits:

curious creative detail-obsessed committed communicative


Publications

- Giulio Cusenza and Çağrı Çöltekin. 2024. [NLP for Arbëresh: How an Endangered Language Learns to Write in the 21st Century](#). In *Proceedings of the 3rd Annual Meeting of the Special Interest Group on Under-resourced Languages @ LREC-COLING 2024*, pages 252–256, Torino, Italia. ELRA and ICCL.

Projects

Arbor	Website with self-developed NLP tools (spellchecking, conjugation...) for the extremely low-resourced Arbëresh language spoken in Southern Italy.	 link
Question tagger model	Training of a question labelling model based on Hugging Face Transformers.	 link
FST spell checker	Probabilistic spell checker built on weighted finite state transducers (python implementation).	 link
Kneser-Ney bigram model	Python program to train a word-bigram model with Kneser-Ney smoothing for next-word prediction and sentence generation.	 link

Awards

Deutschlandstipendium (scholarship)	<i>"The Deutschlandstipendium supports talented and high-performing students. In addition to first-class grades, social commitment and personal achievements are also considered for the award."</i>	 Bundesministerium für Bildung und Forschung link
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