

Giulio Cusenza

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Education

- Oct 2021 - Oct 2024** • **Bachelor's in Computational Linguistics @ University of Tübingen**
*Completed the Bachelor's in Computational Linguistics at the University of Tübingen with a final grade of **1.18 (A+)** within standard program duration. Thesis title: "On the difficulty of using Contextual Word Embeddings to Measure Political Polarisation in Parliamentary Speech".*
- 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**
*Automated 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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