

# Giulio Cusenza

giuliocusenza@gmail.com  
+39 334 980 3678



## Education

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- **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.*
- **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

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- **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

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### 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**, **Firestore** ([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

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- 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

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

## Awards

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| <b>Deutschlandstipendium (scholarship)</b> | <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> | <br>Bundesministerium<br>für Bildung<br>und Forschung<br><a href="#">link</a> |
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