

# Eduardo Calò

31/03/1995 · PHD RESEARCHER

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## Work Experience

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### R&D Scientist

Nancy, France

INRIA LABORATORIES

Mar. 2021 - Aug. 2021

- MSc final internship working for Naimrod, an **ed-tech startup** incubated in Inria.
- Building a **tutoring system** for **language acquisition** implementing a **learning space** built using **formal concept analysis** methods.
- Adapting **CEFR and HSK skills** with tight collaborations with language teachers and the **University of Helsinki**.
- **Data acquisition campaign** to observe students' learning paths.

### NLP Researcher

Nancy, France

ATILF LABORATORIES

Jun. 2020 - Aug. 2020

- Summer internship on **multilingual definition modeling**.
- **Scraping, normalization**, and analysis of linguistic data, dictionary definitions, and semantic relations in **8 languages**.
- Training and evaluation of **non-contextualized word embeddings** architectures (fastText, word2vec, GloVe).
- **Translation** of the Bigger Analogy Test Set (**BATS**) for intrinsic evaluation of word embeddings in 4 languages.

### Language Engineer

Milan, Italy

HARMAN, SAMSUNG

Feb. 2018 - Lug. 2019

- Worked full-time in **automatic speech recognition** team in the localization of **Bixby** vocal assistant for Italian.
- NLP tasks, such as **inverse text normalization**, phonetics for ASR, context-free grammars, translation, annotation.
- **Software releases and deployments** on a regular basis under strict deadlines. Cooperation with release managers and testers.
- Daily collaboration with homologous **international teams** localizing the project in other languages.

## Education

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### Doctor of Philosophy in Natural Language Generation

Utrecht, The Netherlands

UNIVERSITEIT UTRECHT

Nov. 2021 - Present

- Early Stage Researcher in **NL4XAI project**, funded by EU **Horizon 2020** program under the Marie Skłodowska-Curie grant.
- Explaining the **meaning of logical formulae** in optimally intelligible natural language text (English, Mandarin).
- Three academic and **industrial internships** in **Barcelona and Aberdeen**.

### Master of Science in Natural Language Processing

Nancy, France

UNIVERSITÉ DE LORRAINE

Sept. 2019 - Sept. 2021

- Rank: **1/22**, GPA: **17.46/20**, **Mention Très Bien (A+)**.
- Dissertation in tutoring systems: **"Building a Learning Space for Language Acquisition"**.
- Key subjects: **lexical resources, semantics**, NLG, syntax, discourse modeling, corpus linguistics.

### Bachelor of Arts in Asian Studies (Chinese Curriculum)

Rome, Italy

LA SAPIENZA UNIVERSITÀ DI ROMA

Sept. 2014 - Dec. 2017

- GPA: **110 cum laude/110 (A+)**.
- Dissertation in historical linguistics: **"Typological Evolution of Lexical Sign in Chinese"**.
- Key subjects: **general linguistics, sinology, historical linguistics**, applied linguistics, translation studies.

### Language Exchange Program

Beijing, China

BEIJING FOREIGN STUDIES UNIVERSITY

Feb. 2017 - May 2017

- GPA: **96/100**.
- Awarded **best student** of the semester.

### Additional Education

Online

SUMMER SCHOOLS

June 2021 - Aug. 2021

- **Mexican NLP Summer School** (AMPLN 2021, co-located event with NAACL 2021).
- **Lisbon Machine Learning Summer School** (LxMLS 2021).
- 32nd **European Summer School in Logic, Language and Information** (ESSLLI 2021).

## Languages

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**Italian** Native

**English** Fluent (FCE, 2013)

**French, Mandarin, Spanish** Intermediate

## Publications

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1. E. Calò. Building a Learning Space for Language Acquisition. Master's thesis, IDMC (Univeristé de Lorraine), Sept. 2021. URL <https://hal.inria.fr/hal-03389328>
2. E. Calò, L. Jacqmin, T. Rosemblatt, M. Amblard, M. Couceiro, and 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*, pages 8–11, Lille, France, June 2021. ATALA. URL <https://aclanthology.org/2021.jeptalnrecital-demo.3>

## Invited Talks & Seminars

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- *Building a Learning Space for Language Acquisition*, MALOTEC: Séminaire de MATHématique et LOGique pour l'exTRaction et le traitEMENT de Connaissances, LORIA (CNRS, Inria, Université de Lorraine), 21/10/2021

## Honors & Awards

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- Accredited Professional** Awarded by *Fondazione Italia-USA* at the *Italian Chamber of Deputies*, 2018.
- Graduation Award** Economic prize from *Latium Authority for Education* **for graduating on time with honors**, 2018.
- Grant** Study grant from *Latium Authority for Education*, 2017.
- Scholarships** Economic prizes from a private institute in Umbria (Italy) for scholastic merit, 2008-2009.

## Skills

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**Coding** *Python, Bash*, LaTeX, SPARQL, HTML.

**Software** *Linux*, Praat, GitHub.

**Project Management** *Agile Method*, DevOps, Scrum.

**Team Working** Studying and working experience in both large and small teams.

**Team Leading** Team leader in summer camps in Italy and abroad.

**Soft Skills** Fast learner, detail oriented, flexible and adaptable, critical thinker, stress management skills, organized, self motivated, and highly productive.

## Personal Interests

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**Sports** Expert swimmer, competitively practiced swimming for 15 years. High school track and field athlete.

**Travelling** I have a deep passion for travelling, meeting new people, and discovering new cultures. Curiosity fuels my life and I am always eager to learn and experience new things.