

Leonardo Emili

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EDUCATION

Vienna University of Technology

Erasmus+, Informatics

Vienna, Austria

Sep 2021 – Feb 2022

Sapienza University of Rome

Master of Science in Computer Science, 110/110 summa cum laude

Rome, Italy

Sep 2020 – July 2022

Sapienza University of Rome

Bachelor of Science in Computer Science, 110/110 summa cum laude

Rome, Italy

Sep 2017 – July 2020

EXPERIENCE

Deep Learning Scientist

Translated

November 2022 – Now

Rome, Italy

- Lead effort in incorporating context-awareness, boosting accuracy of document-level MT.
- Created the production pipeline for large-scale multilingual models, used in every training.
- Contribute to the early development and evaluation of LLMs for NMT.

AI/ML Research Intern

Apple Inc.

May 2022 – Sep 2022

Aachen, Germany

- Contributed to internal research projects in the Siri LM team (SaLT).
- Paper: Neural Language Model Pruning for ASR.

Research Assistant

Sapienza University of Rome

July 2020 – Jul 2022

Rome, Italy

- Developed the data cleaning pipeline to collect high-quality data from Wikipedia.
- Created cross-lingual NED embeddings for Wikidata in 9 languages.

AWARDS

Honours Program

Honours Program for selected students, enriching field knowledge alongside regular coursework.

March 2019

SELECTED PROJECTS

Aspect-Based Sentiment Analysis

Multitask learning approach using contextualized word embeddings and Conditional Random Field (CRF).

Stock Price Forecasting

Distributed stock price forecasting system to predict S&P 500 stock prices.

RESTaurant-reservation

Microservice-based restaurant reservation system, built using Docker Compose.

REFERENCES

1. **Leonardo Emili**, Thiago Fraga-Silva, Ernest Pusateri, Markuss Nußbaum-Thom, and Youssef Oualil. *Neural Language Model Pruning for Automatic Speech Recognition* (2023).

TECHNICAL SKILLS

Programming Languages: Python, Java, Dart, C, C++, Shell, JavaScript, TypeScript, SQL

Frameworks: PyTorch, PyTorch Lightning, PEFT, Transformers, Tensorflow 1, PySpark, Keras

Developer Tools: Git, Docker, GCP, AWS, L^AT_EX

SELECTED COURSES

Deep Learning (30L/30), **Natural Language Processing** (30L/30), **Distributed Systems** (30/30)

LANGUAGES

Italian (native), **English** (C1 level), **Spanish** (advanced), **German** (intermediate), **French** (intermediate)