

Luca Malagutti



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WORK EXPERIENCE

RESEARCH ASSISTANT

Rycolab, ETH Zurich

📅 June 2023 - ongoing 📍 Zurich, CH

Research assistant at Rycolab under the supervision of Prof. Ryan Cotterell.

Focus on text generation and related topics.

DATA SCIENCE INTERN

SEI Novus

📅 March 2022 - August 2022 📍 Zurich, CH

Built from scratch and deployed a complete pipeline for automatic data extraction from financial documents.

TEACHING ASSISTANT

Rycolab, ETH Zurich

📅 Various 📍 Zurich, CH

TA for NLP-related courses held by Professor Ryan Cotterell at ETH Zurich.

Held discussion sections, wrote lecture notes, prepared and marked assignments and exam questions.

- Sep 2021 - Feb 2022: Natural Language Processing
- Sep 2022 - Feb 2023: Natural Language Processing
- Feb 2023 - ongoing: Large Language Models

LAB MEMBER

NECSTLab, Polytechnic University of Milan

📅 November 2018 - July 2020 📍 Milan, IT

Developed mobile applications for biometric data logging. Collaborated with PhD candidates under the supervision of Professor Marco Santambrogio.

EDUCATION

MASTER'S DEGREE IN COMPUTER SCIENCE

ETH Zurich

📅 September 2020 - May 2023 📍 Zurich, CH

Major: Machine Intelligence

Selected courses include: Natural Language Processing, Advanced Machine Learning, Computational Intelligence Laboratory, and Machine Perception.

- Overall GPA: 5.45/6.0

BACHELOR'S DEGREE IN COMPUTER ENG.

Polytechnic University of Milan

📅 September 2017 - July 2020 📍 Milan, IT

Final grade: 110/110

PROJECTS & PUBLICATIONS

ON THE EFFICACY OF SAMPLING ADAPTERS

ACL 2023 Main Conference Proceedings

Clara Meister, Tiago Pimentel, Luca Malagutti, Ethan Wilcox, Ryan Cotterell

DIVERGENCES FOR LANGUAGE GENERATION

Master's Thesis - Rycolab, ETH Zurich

📅 October 2022 - April 2023 📍 Zurich, CH

Master's Thesis on the use of divergence functions as alternative fine-tuning losses for Natural Language Generation models. Supervision by PhD student Clara Meister.

AUTOMATIC TEXTBOOK SUMMARIZATION

Semester Project - NLPED Lab, ETH Zurich

📅 September 2021 - January 2022 📍 Zurich, CH

Created and analyzed a novel data set for educational NLP under the supervision of Prof. Mrinmaya Sachan.

DEEP-MON

Semester Project - Polytechnic University of Milan

📅 February 2020 - June 2020 📍 Milan, IT

Improved Deep-Mon, an eBPF-based monitoring tool to measure container resource usage, by implementing its memory, disk, and I/O monitoring capabilities and creating a new CLI.

TECHNICAL SKILLS

- | | |
|-----------|---------------------|
| • Python | • AWS Cloud |
| • Pytorch | • Git, CI/CD tools |
| • Java | • Docker/Kubernetes |

LANGUAGE SKILLS

- **Italian:** mother tongue
- **English:** full proficiency (C2 level)
- **German:** basic proficiency (B1 level)

HONORS

BEST FRESHMEN SCHOLARSHIP

Polytechnic University of Milan

📅 September 2018 📍 Milan, IT

Awarded merit-based full scholarship granted to the best-performing freshmen of the 2017-2018 academic year.