

# Angelika Romanou

Rue Saint-Martin 25, Lausanne 1003, Switzerland

18/11/1992

+41 78 251 67 38

[angelika.romanou@epfl.ch](mailto:angelika.romanou@epfl.ch)

[Website](#) ♦ [Github](#) ♦ [Google Scholar](#)

## RESEARCH INTERESTS

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My research focus lies on the evaluation of generative AI agents in multilingual and multimodal contexts. I am interested in testing the complex reasoning abilities of LLMs and modular deep-learning architectures.

## PROFESSIONAL & RESEARCH EXPERIENCE

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- 09/2020 - Present **PhD Candidate**, EPFL - [NLP lab](#), [LSIR lab](#), Lausanne / Switzerland
- Research on complex reasoning & cross-lingual transfer in Large Language Models (LLMs).
  - Teaching Assistant for [DIS](#) & [DB-Systems](#) & [Modern NLP](#) EPFL master courses.
  - Supervisor for students' semester and master projects.
- 06/2019 - 08/2020 **Machine Learning Research Scientist**, EPFL - [lsir.epfl.ch](https://lsir.epfl.ch), Lausanne / Switzerland
- Research on sequence modeling and natural language processing.
  - Software development for machine learning projects.
- 03/2018 – 06/2019 **Machine Learning Software Engineer**, Beat - [thebeat.co](https://thebeat.co), Athens / Greece
- Design, implement, and deploy Machine Learning features for Beat App or internal tools.
  - Develop reliable and scalable services using micro-services architecture.
- 02/2017 – 03/2018 **Big Data Software Engineer**, Beat - [thebeat.co](https://thebeat.co), Athens / Greece
- Build data streaming pipelines in order to serve machine learning applications/services.
  - Develop components that analyze, process, and react to operational feeds in near real-time, optimizing driver allocation, optimizing service pricing, and preventing fraudulent activities.
  - Work with other engineering teams to translate complex models and algorithms into production-grade software systems.
- 03/2014 - 02/2017 **Data Scientist**, Intelen Inc - [intelen.com](https://intelen.com), New York / USA, Athens / Greece
- Demand forecasting and energy grid optimization.
  - Perform data-driven business consulting on clients.
  - Research and development on data-oriented functionalities and services.
- 10/2013 - 03/2015 **Lab & Research Assistant**, ELTRUN lab (AUEB) - [eltrun.gr](https://eltrun.gr), Greece
- Data processing and analysis on European and National projects.

## EDUCATION

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- 09/2020 - Present **Ecole Polytechnique Fédérale de Lausanne (EPFL)**, Lausanne, Switzerland
- **PhD degree:** Computer Science

- Thesis direction: “*Evaluation of Generative AI Agents in Multilingual and Multimodal Contexts*”

09/2016 - 07/2018 **Athens University of Economics and Business (AUEB)**, Athens, Greece

- **MSc degree:** Data Science (2-year degree, 78 ECTS)
- Thesis: “*Named Entity Recognizer for the Greek Language using Deep Learning Architectures.*”

09/2010 - 07/2015 **Athens University of Economics and Business (AUEB)**, Athens, Greece

- **BSc degree:** Department of Management Science and Technology (4-year degree, 240 ECTS)
  - Grade: 8.04/10 “Very Good”
  - Major: Information Systems
- Thesis: “*An Overview of Information Systems Architectures and their Impact on Strategic Management*”

## NOTABLE PUBLICATIONS

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- **INCLUDE: Evaluating Multilingual Language Understanding with Regional Knowledge** (Sept. 2024)  
**Romanou A**, Foroutan N, Bosselut A, et al. *ICLR 2025 (Under Submission)*
- **Meditron-70b: Scaling medical pretraining for large language models** (Nov. 2023)  
Chen Z, Cano AH, **Romanou A**, Bosselut A, et al. *arXiv preprint*
- **CRAB: Assessing the Strength of Causal Relationships Between Real-world Events** (Jun. 2023)  
**Romanou A**, Montariol S, Paul D, Laugier L, Aberer K, Bosselut A, *EMNLP 2023*
- **Multilingual Text Summarization on Financial Documents** (Jun. 2022)  
Foroutan N, **Romanou A**, Massonnet S, Lebre R, Aberer K, *FNS Workshop @LREC2022*
- **Interpreting Language Models Through Knowledge Graph Extraction** (Dec. 2021)  
Swamy V, **Romanou A**, Jaggi M, *eXplainable AI Workshop @NeurIPS2021*
- **SciLens News Platform: A System for Real-Time Evaluation of News Articles** (Apr. 2020)  
**Romanou A**, Smeros P, Castillo C, Aberer K, *VLDB2020*
- more on my [Google Scholar](#)

## RECENT INVITED TALKS

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- **Invited Talk at AMLD 2024**, Lausanne / Switzerland (in-person)
- **Causality Workshop at AAAI 2024**, Vancouver / Canada (in-person)
- **Poster presentation at EMNLP 2023**, Singapore / Singapore (in-person)
- **iNET Oxford Seminars (Nov 2023)**, Oxford / United Kingdom (in-person)

## PROGRAMMING SKILLS

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- **Languages:** Python, Scala, SQL
- **ML Frameworks:** Pytorch, Tensorflow, Keras, HuggingFace, scikit-learn
- **Big Data Frameworks:** Apache Spark, Apache Flink, Apache Hive

## LANGUAGES

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- **Greek** (native), **English** (fluent), **French** (basic)