Angelika Romanou

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Website   ♦   Github   ♦   Google Scholar

RESEARCH INTERESTS

Research areas: *Post-Training/Alignment, Evaluation (Reasoning/Multilingual), Robustness & Prompt Sensitivity, Long-Context Reasoning*

My research focuses on building reliable AI systems by closing the loop between evaluation and post-training. I develop evaluation pipelines that target complex reasoning, long-context understanding, and prompt sensitivity, exposing where models fail. These insights drive the design of post-training interventions that directly address identified weaknesses, improve robustness and transfer across languages, with demonstrated gains at scale.

PROFESSIONAL & RESEARCH EXPERIENCE

08/2025 - Present   **Research Scientist Intern**, Meta FAIR, New York City / USA

- Research on evaluating and improving robustness and prompt sensitivity in LLMs.

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 Modern NLP & DIS & DB-Systems EPFL master courses.
- Supervisor for students' semester projects and master thesis.

06/2019 - 08/2020   **Machine Learning Research Scientist**, EPFL - lsir.epfl.ch, Lausanne / Switzerland

- Research on sequence modeling and natural language processing.
- Software development for machine learning projects.

03/2018 – 05/2019   **Machine Learning Software Engineer**, Beat - 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 – 02/2018   **Big Data Software Engineer**, Beat - 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 - 01/2017   **Data Scientist**, Intelen Inc - intelen.com, Athens / Greece

- Demand forecasting and energy grid optimization.
- Perform data-driven business consulting on clients.
- Research and development on data-oriented functionalities and services.

EDUCATION

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

- **Apertus: Democratizing Open and Compliant LLMs for Global Language Environments** (Sept.2025) Apertus Team, *Arxiv 2025* [Paper]

- **Measuring what Matters: Construct Validity in Large Language Model Benchmarks** (July 2025) Bean A, Kearns R, **Romanou A**, Mahdi A et al., *NeurIPS 2025*

- **PERK: Long-Context Reasoning as Parameter-Efficient Test-Time Learning** (July 2025) Chen Z, **Romanou A**, Weiss G, Bosselut A, *Arxiv 2025 (Under Submission)* [Paper]

- **Global-MMLU: Understanding and addressing cultural and linguistic biases in multilingual evaluation** (Nov. 2024) Singh S, **Romanou A**, Fourrier C, Choshen L, Ippolito D, Hooker S, et al., *ACL 2025* [Paper]

- **INCLUDE: Evaluating Multilingual Language Understanding with Regional Knowledge** (Sept. 2024) **Romanou A,** Foroutan N, Hooker S, Bosselut A, et al. *ICLR 2025 (Spotlight)* [Paper]

- **Meditron-70b: Scaling medical pretraining for large language models** (Nov. 2023) Chen Z, Cano AH, **Romanou A,** Bosselut A, et al. *arXiv preprint* [Paper]

- **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* [Paper]

- **Interpreting Language Models Through Knowledge Graph Extraction** (Dec. 2021) Swamy V, **Romanou A,** Jaggi M, *eXplainable AI Workshop @NeurIPS2021* [Paper]

- more on my Google Scholar

GRANTS & AWARDS

- **Meta Large Language Models Evaluations Research Grant (2024)**

RECENT INVITED TALKS

- **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

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

LANGUAGES

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