GIORGOS FILANDRIANOS

Researcher at the AILS Laboratory of NTUA, working on natural language processing and model explainability. His research includes reasoning, fairness, and the generation of counterfactuals, with contributions to research projects and publications involving LLM-based reasoning, discourse analysis, and interpretability methods aimed at revealing the decision-making processes of AI systems.

Contact

+30 6975787759
geofila@islab.ntua.gr
geofila.github.io

Languages

Greek – Native Speaker
English – Excellent

Awards

iCSS Doctoral Scholarship

1st place in 3 tasks of the SEMEval 2025 Challenges (International NLP Competition).

3rd place in AuTexTification: Automated Text Identification shared task.

1st place COVID-19 sensor informatics challenge.

1st place in Greece on the Google Hash Code Online Qualification Round scoring: 915,339

Teaching Assistant

Bachelor's Courses:
• Artificial Intelligence (AI)
• Deep Learning
• Machine Learning
• Foundations of CS

Master's Courses:
• Advanced Topics in AI
• Deep Learning

Conferences Attended

NeurIPS 2025, EMNLP 2025, ACL 2025, ICML 2024, EMNLP 2024, COLING 2024, CIKM 2024, ACL 2023, IJCAI 2023

Education

PhD, National Technical University of Athens (2019–2025)

- *Title: Generation and Evaluation of Semantic Counterfactual Explanations*

Master's in Electrical and Computer Engineering (2013-2019)

- *National Technical University of Athens (GPA: 7.82/10)*

Investment Applications Workshop (2017-2018)

- *National and Kapodistrian University of Athens (grade: 10/10)*

Experience

- **05/2025 - now**: Pharos (ICCS): National AI Factory bridging research, industry, and HPC to accelerate innovation.
- **04/2023 - 05/2025**: HiDALGO2 (ICCS): Development of systems for various tasks such as surrogate modeling and link prediction in the context of several global environmental challenges.
- **01/2022 - 04/2023**: Smarty4Covid (ICCS): Development of a database and AI algorithms for modeling Covid-19.
- **10/2020 - 12/2021**: DigiGen (Panteion University): Development and updating of the connection platform of the standard terminology regarding the use of ICT in leisure time.
- **01/2020 - 10/2020**: Apollonis (ICCS): Development of Information Extraction systems from multilingual historical texts.
- **01/2019 - 12/2019** (Independent Research Project)**:** Develop melodyBot, an online platform that uses 36 different artificial intelligence algorithms for music synthesis in symbolic form.
- **01/2016 - 12/2019** (Independent Research Project)**:** As an undergraduate student, developed the first prosthetic arm in the world, which can be controlled only with thought and eyes movement. The hand works by several artificial intelligent algorithms for decoding EEG signals and signals from cameras and sensors. Led both hardware design and algorithm development.

Reviewing Experience

- ACL Rolling Review (**ARR**) - **June 2024 - now**
- **NeurIPS 2025**
- International Conference on Computational Linguistics (**COLING**) - **2025**
- International Conference on Acoustics, Speech and Signal Processing (**ICASSP**) - **2023, 2024**
- European Chapter of the Association for Computational Linguistics (**EACL**) - **2023**

Selected Publications

- **Filandrianos, G.**, Dimitriou, A., Lymperaiou, M., Thomas, K., & Stamou, G. (2025). Bias Beware: The Impact of Cognitive Biases on LLM-Driven Product Recommendations. **EMNLP 2025**

- Raptopoulos, Petros, **Giorgos Filandrianos**, Maria Lymperaiou, and Giorgos Stamou. "PAKTON: A Multi-Agent Framework for Question Answering in Long Legal Agreements.", **EMNLP 2025**

- Stringli, E., Lymperaiou, M., **Filandrianos, G.**, & Stamou, G. (2025). Pitfalls of Scale: Investigating the Inverse Task of Redefinition in Large Language Models. **ACL 2025**

- Giadikiaroglou, P., Lymperaiou, M., **Filandrianos, G.**, & Stamou, G. (2024, November). Puzzle Solving using Reasoning of Large Language Models: A Survey. In Proceedings of the 2024 **Conference on Empirical Methods in Natural Language Processing** (pp. 11574-11591).

- Thomas, K., **Filandrianos, G.**, Lymperaiou, M., Zerva, C., & Stamou, G. (2024, November). " I Never Said That": A dataset, taxonomy and baselines on response clarity classification. **In Findings of the Association for Computational Linguistics: EMNLP 2024** (pp. 5204-5233).

- Panagiotopoulos, I., **Filandrianos, G.**, Lymperaiou, M., & Stamou, G. (2025, January). RISCORE: Enhancing In-Context Riddle Solving in Language Models through Context-Reconstructed Example Augmentation. **In Proceedings of the 31st International Conference on Computational Linguistics** (pp. 9431-9455).

- Angeliki Dimitriou, Maria Lymperaiou, **Giorgos Filandrianos**, Konstantinos Thomas, & Giorgos Stamou (2024). "Structure Your Data: Towards Semantic Graph Counterfactuals." **International Conference on Machine Learning (ICML)**. PMLR.

- Dervakos, Edmund, Thomas, Konstantinos, **Filandrianos, Giorgos**, and Stamou, Giorgos. "Choose your Data Wisely: A Framework for Semantic Counterfactuals". In: Proceedings of the Thirty-Second In- ternational **Joint Conference on Artificial Intelligence, IJCAI-23**. Ed. by Edith Elkind. Main Track. International Joint Conferences on Artificial Intelligence Organization, Aug. 2023, pp. 382–390. doi: 10.24963/ ijcai.2023/43.

- **Filandrianos, George**, Dervakos, Edmund, Menis Orfeas Mastromichalakis, Zerva, Chrysoula, and Stamou, Giorgos. "Counterfactuals of Counterfactuals: a back-translation-inspired approach to analyst counterfactual editors". In: Findings of the **Association for Computational Linguistics: ACL 2023**. Ed. by Anna Rogers, Jordan Boyd-Graber, and Naoaki Okazaki. Toronto, Canada: Association for Computational Linguistics, July 2023, pp. 9507–9525. doi: 10.18653/v1/2023.findings-acl.606.

- Zarkogianni, K., Dervakos, E., **Filandrianos, G.**, Ganitidis, T., Gkatzou, V., Sakagianni, A., ... & Nikita, K. S. (2023). The smarty4covid dataset and knowledge base as a framework for interpretable physiological audio data analysis. **Scientific data**, 10(1), 770.

- Symeonaki, Maria, **George Filandrianos**, and Giorgos Stamou. "Visualising key information and communication technologies (ICT) indicators for children and young individuals in Europe." **Humanities and Social Sciences Communications** 9.1 (2022): 1-12.

- **Filandrianos, Giorgos,** et al. "Conceptual Edits as Counterfactual Explanations." *AAAI Spring Symposium: MAKE. 2022.*