

# FILANDRIANOS GIORGOS

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## Contact

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[geofila.github.io](https://geofila.github.io)

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## Languages

Greek – Native Speaker

English – Excellent

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## Awards

### iCSS Doctoral Scholarship

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

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## Teaching Assistant

### Bachelor's Courses:

- Artificial Intelligence
- Deep Learning
- Machine Learning
- Foundations of Computer Science

### Master's Courses:

- Advanced Topics in Artificial Intelligence
- Deep Learning

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## Conferences Attended

ACL 2023, IJCAI 2023, ICML2024, CIKM 2024

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## Education

### CS Ph.D. Candidate (2019-)

- *National Technical University of Athens*

### Master in Electrical and Computer Engineering (2013-2019)

- *National Technical University of Athens (grade: 7.82)*

### Investment Applications Workshop (2017-2018)

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

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## Experience

- **04/2023 - now:** 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 intelligent 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 egg signals and signals from cameras and sensors. The development confers both the electromechanical parts and the algorithms' development.

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## Reviewing Experience

- European Chapter of the Association for Computational Linguistics (EACL) - **2023**
- International Conference on Acoustics, Speech and Signal Processing (ICASP) - **2023**
- International Conference on New Interfaces for Musical Expression (NIME) - **2022**

## Selected Publications

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- Angeliki Dimitriou, Maria Lymperaioi, **Giorgos Filandrianos**, Konstantinos Thomas, & Giorgos Stamou (2024). "Structure Your Data: Towards Semantic Graph Counterfactuals." **International Conference on Machine Learning**. 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 International **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.
- Kazani, Aggeliki, et al. "Semantic Integration of Data: From Theory to Social Research Practice." Quantitative Demography and Health Estimates: Healthy Life Expectancy, Templates for Direct Estimates from Life Tables and other Applications. Cham: Springer Nature Switzerland, 2023. 303-314.
- Parsanoglou, D., Mifsud, L., Ayllón, S., Brugarolas, P., **Filandrianos, G.**, Hyggen, C., Kazani, A., Lado, S., Symeonaki, M., & Andreassen, K. J.. Combining innovative methodological tools to approach digital transformations in leisure among children and young people. (DigiGen- working paper series No.9), 2022 doi: 10.5281/zenodo.6492015.
- Tsakas, Nikolaos, et al. "An Impartial Transformer for Story Visualization." arXiv preprint arXiv:2301.03563 (2023).
- **Filandrianos, Giorgos**, et al. "Conceptual Edits as Counterfactual Explanations." *AAAI Spring Symposium: MAKE*. 2022.
- Dervakos, Edmund, et al. "Semantic Enrichment of Pretrained Embedding Output for Unsupervised IR." *AAAI Spring Symposium: Combining Machine Learning with Knowledge Engineering*. 2021.
- Dervakos, Edmund, **Giorgos Filandrianos**, and Giorgos Stamou. "Heuristics for Evaluation of AI Generated Music." *2020 25th International Conference on Pattern Recognition (ICPR)*. IEEE, 2021.