

# Paschalis Agapitos

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## Profile

PhD candidate in Computational Humanities with a background in classical philology and digital humanities. Experienced in NLP, network science, and cultural data analytics. Adept at applying machine learning and deep learning methods to interdisciplinary research problems, particularly involving historical and textual datasets.

## Technical Skills

**Languages & Libraries:** Python, R, HTML5, JavaScript, TensorFlow, Keras, PySpark, Dask

**Tools & Platforms:** Git/GitHub, Quarto, Jupyter, Overleaf

**Concepts:** Natural Language Processing, Data Science, Stylometry, Deep Learning, Cultural Analytics

## Education

**PhD in Computational Humanities**, Donostia International Physics Center / University of the Basque Country 2023–Present

Research on Wikipedia-based cultural networks using NLP and network data science.

**MA in Digital Humanities**, University of Groningen 2021–2022

**BA in Philology (Classics)**, University of Ioannina 2014–2019

Specialization in Ancient Greek and Latin Linguistics

### Additional Training:

- Deep Learning with Python – HiTZ (UPV/EHU), 2024
- Build Deep Learning Models with Tensorflow – Codecademy, 2024
- Natural Language Processing with Python – Codecademy, 2022
- Data Science with Python – University of Athens, 2021 (Grade: 98.3%)
- HTML5 and JavaScript – University of Athens, 2021

## Professional Experience

**Research Intern**, CulturePlex Lab, Western University (Canada) Jan–Apr 2025

Cultural data analytics in a multi-national team, focusing on computational humanities research.

**PhD Researcher**, DIPC / UPV-EHU (Spain) Apr 2023–Present

Big Data analysis of historical figures using distributed frameworks (Dask, PySpark) and NLP and network data science.

**Teaching and Research Assistant**, University of Groningen (Netherlands) Sep 2022–Mar 2023

Supported computational semantics courses and co-developed interactive digital textbook using Quarto.

**Secondary School Teacher**, Frontistirio Prooptiki (Greece) Sep 2019–Jun 2021

Taught Ancient/Modern Greek and Latin literature.

**Archaeologist Assistant (Trainee)**, Ministry of Culture (Greece) Jul–Aug 2018

Supported cataloging, tours, and fieldwork at the Archaeology Museum of Alexandroupolis.

## Projects

### **Cultural Analytics Open Science Guide** (2022–Present)

Developed Quarto-based digital textbook for the Centre of Digital Humanities in Groningen. [github.com/GroningenDH/Cultural-Analytics-Open-Science-Guide](https://github.com/GroningenDH/Cultural-Analytics-Open-Science-Guide)

### **Stylometric Analysis on British Political Speeches** (2021)

Applied stylometry and scraping to analyze Churchill's rhetoric.

[paschalisag.github.io/SAPS/intro.html](https://paschalisag.github.io/SAPS/intro.html)

### **CNN for Pneumonia Detection**

Built and trained a CNN on X-ray images using TensorFlow.

*GitHub Project*

## Publications & Conferences

- Agapitos, P., van Cranenburgh, A. (2024). *A Stylometric Analysis of Seneca's Disputed Plays*. Journal of Computational Literary Studies. doi:10.48694/jcls.3919
- Miccio, L.A., Agapitos, P., Gamez-Perez, C. et al. *Wikipedia as a cultural lens: a quantitative approach for exploring cultural networks*. Humanit Soc Sci Commun 12, 462 (2025). doi.org/10.1057/s41599-025-04772-5
- Speaker: Computational Literary Studies 2024 (Vienna) & CUDAN 2023 (Tallinn)

## Languages

**Greek (Native)**, English (C1), Spanish (B1), German (B1), Basque (A1)