Konstantinos Bougiatiotis

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Introduction

Ph.D. candidate in Computer Science, focusing on data science and machine learning. My current research is centered around relational machine learning for knowledge graphs, representation learning and graph neural networks. I am also interested in classical ML, NLP, multi-modal processing and recommendation systems.

Education

Dec 18 – Present	**(ongoing) Ph.D. Student in Informatics and Telecommunications**, *National and Kapodistrian University of Athens*, Athens, Greece.
Sept 09 – Nov 15	**Diploma in Electrical and Computer Engineering**, *National Technical University of Athens*, Athens, Greece, **8.04/10 (Top 15%)**.

Diploma Thesis

Title	*Content-based Recommender System for Movies, with emphasis on Text*
Supervisor	Prof. Stefanos Kollias

Professional Experience

Apr 20 – Present	**Researcher**, *AI Center of Excellence in Document Intelligence - DICE, Collaboration between IIT and EY*, Athens.

- Focus on analyzing data related to finance and legal documents.
- Implement research prototypes connected to products

Dec 15 – Apr 20	**Assistant Researcher**, *Software and Knowledge Engineering Laboratory, Institute of Informatics and Telecommunications*, Athens.

Several European Funded Projects(*RevEAL*, *iASiS*, *BioASQ*, *HOBBIT*) :
- Research prototype developer (machine learning, nlp, bioinformatics, graph analysis, question-answering, graph neural networks, visualization)
- Technical infrastructure (both back- and front-end development)
- Publishing and presenting research work in conferences
- Co-supervising internships and B.Sc./M.Sc. theses
- Challenges organization
- Participation in submitting proposals for EU funding (FP7, H2020)

June 17– August 17	**Software Developer**, *Freelancer*, Athens.

- Designing and deploying a hybrid recommender system for the leading coupon dealer company in Greece for personalized recommendations

Occasionally

2011–2014	**Private tutor**, *Athens.*

High school students tutoring on Mathematics, Physics and Informatics

Languages

Greek	**Excellent**	*Native Speaker*
English	**Excellent C2**	*Certificate of Proficiency in English, University of Michigan, USA*
German	**Basic B1**	*Goethe Zertifikat Deutsch, Germany*

Technical Skills

Progr. Lang.	Python (+Pytorch), Matlab, C, Java	**Databases**	MongoDB, SQL, Neo4j, Virtuoso
Front end	HTML, CSS, Javascript	**CMS**	Wordpress, Drupal, Joomla

- Interactive Visualization Tools (Plotly, Bokeh, Gephi, D3.js)
- Web-app and services using Apache-Flask/Django framework
- Deployment using Docker, Heroku
- Rest: Basic sysadmin on Unix systems, TeX, Git, Google AI Cloud, MS Office

Presentations

May 2016	**SETN2016**, *Thessaloniki, Greece*, Content Representation and Similarity of Movies based on Topic Extraction from Subtitles.
September 2016	**CLEF2016**, *'Evora, Portugal*, Author Profiling using Complementary Second Order Attributes and Stylometric Features.

Additional Information

Driving License	B
Massive Open Online Courses	○ *Machine Learning*, by Stanford University ○ *An Introduction to Interactive Programming in Python*, by Rice University ○ *Terrorism and Counter Terrorism: Comparing Theory and Practice*, by Leiden University

Selected Publications

Konstantinos Bougiatiotis, Fotis Aisopos, Anastasios Nentidis, Anastasia Krithara, and Georgios Paliouras. Drug-drug interaction prediction on a biomedical literature knowledge graph. In *Proceedingss of the 2020 International Conference on Artificial Intelligence in Medicine, AIME 2020, Minnesota, USA, August 25-28, 2020*, 2020.

Konstantinos Bougiatiotis and Theodoros Giannakopoulos. Enhanced movie content similarity based on textual, auditory and visual information. *Expert Systems with Applications*, 96:86 – 102, 2018.

Anastasios Nentidis, Konstantinos Bougiatiotis, Anastasia Krithara, and Georgios Paliouras. Semantic integration of disease-specific knowledge. In *Proceedings of the 17th European Conference on Computational Biology, ECCB 2018, Athens, Greece, September, 8-12, 2018*, 2018.

Vassiliki Rentoumi, George Paliouras, Konstantinos Bougiatiotis, Dimitra Arfani, Katerina Fragkopoulou, Spyridoula Varlokosta, and Peter Garrard. Automatic detection of linguistic indicators as a means of early prediction of alzheimers and of related dementias: A cross linguistics analysis. In *Proceedings of the Alzheimer's Association International Conference, AAIC 2018, Chicago, United States, July 22-26*, 2018.