

George Panagopoulos | CV

4849 Calhoun Rd, Houston, TX 77004, USA

✉ gpanagopoulos@uh.edu • 🌐 giorgospanagopoulos.github.io

Education

Academic Qualifications.....

- **University of Houston** **Houston, TX, USA**
○ *Ms. in Computer Science, Advisor : Ioannis Pavlidis* *August 2016-Present*
- **Harokopio University of Athens** **Athens, Greece**
○ *Bachelors in Informatics and Telematics* *September 2010-July 2014*

Notable Projects.....

- **Masters Project (Ongoing):** '*Forecasting Driving Anomalies Using Wearable Sensors*'
- **Undergraduate Thesis:** '*Detecting Rising Stars in Dynamic Collaborative Networks*'
Devised and implemented a computational methodology based on graph mining and unsupervised machine learning to identify scientists with potential to be academic stars in the future, using their early bibliometrics and temporal coauthorship networks.

Research

Journals.....

- G. Panagopoulos, G. Tsatsaronis, and I. Varlamis. "*Detecting rising stars in dynamic collaborative networks*" **Journal of Informetrics** 11.1 (2017): 198-222.

Conferences.....

- G. Panagopoulos. "*Multi-Task Learning for Commercial Brain Computer Interfaces*", in Proc. of the IEEE BioInformatics and BioEngineering (**BIBE**), Washington DC, USA, USA October 23-25, 2017
- P. Karampiperis, A. Koukourikos, G. Panagopoulos. "*From Computational Creativity Metrics to the Principal Components of Human Creativity*", in Proc. of the 9th International Conference on Knowledge, Information and Creativity Support Systems (**KICSS**), Limassol, Cyprus, November 6-8, 2014
- A. Koukourikos, P. Karampiperis, G. Panagopoulos. "*Creative Stories: A Storytelling Game fostering Creativity*", in Proc. of the 11th International Conference on Cognition and Exploratory Learning in Digital Age (**CELDA**), Porto, Portugal, October 25-27, 2014

Workshops.....

- G. Panagopoulos, C. Palmer, "*A Specialized Interactive Data Application for EEG Based Sleep*

Studies", Assistive Technologies for Decision making in Healthcare (ADH) in conjunction with the 10th International Conference on Pervasive Technologies Related to Assistive Environments (**PETRA**), Rhodes, Greece, June 21-23, 2017

- G. Panagopoulos, P. Karampiperis, A. Koukourikos, S. Konstantinidis, "*Creativity Profiling Server: Modelling the Principal Components of Human Creativity over Texts*", Workshop on Deep Content Analytics Techniques for Personalized and Intelligent Services (DECAT), in conjunction with the 23rd Conference on User Modelling, Adaptation and Personalization (**UMAP**), Dublin, Ireland, June 19-July 3, 2015

Scientific Services.....

- Journal Reviewer: Scientometrics, Informetrics
- Publication, Publicity and Web Co-Chair : IEEE International Conference on Bioinformatics and BioEngineering, Washington DC, USA, USA October 23-25, 2017

Previous Employment

- **University of Houston** **Houston**
Teaching Assistant *August 2017–Present*
- **NCSR Demokritos, Software Knowledge Engineering Lab** **Athens, Greece**
Research Intern *May 2017–August 2017*
Stress classification analysis for drivers based on their bio-signals and signals indicating driving behavior using Hidden Markov Models.
- **University of Houston, Computational Physiology Lab** **Houston**
Research Assistant *August 2016–May 2017*
Curated, combined, synchronized and preprocessed data from a driving simulation experiment and a real on track driving experiment. The data came from 5 different sensors and consisted of multiple formats. I also performed an exploratory data analysis to evaluate the initial hypothesis of the experiments.
- **University of Houston, Computational Physiology Lab** **Houston**
Research Intern *February–March 2016*
Quality control of experimental data coming from wearable signals with data visualization techniques and statistical hypothesis tests.
- **NCSR Demokritos, Software Knowledge Engineering Lab** **Athens, Greece**
Research Assistant *September 2014–July 2016*
 - Designed and run Brain Computer Interface tutorials for university students, in Demokritos Summer School 2015 & 2016. Utilized: Python, Jupyter Notebooks, Emotiv EPOC+, MATLAB, C++
 - Presented an interactive program to familiarize school children age 9-15 with Brain Computer Interfaces. Overall, 121 schools attended in the span of 7 months, with over 2500 children taking part in it.
 - Presented 'MindPong', a pong game based on Emotiv EPOC+ brain computer interface in Athens Science Festival 2016.
 - Implemented computational services as part of a profiling server that retrieves text and derives creativity profiles for its users based on computational creativity metrics and a matrix factorization technique. Utilized: Java, Wordnet, Weka, MATLAB, Web Service, MySQL
 - Implemented a set of SOAP web services that use natural language processing, unsupervised machine learning, semantic engineering and web crawling to model the creativity in essays written by children, in three different languages. Utilized: Java, Web Services, MySQL, Web Crawling, Facebook & Twitter API

- **NCSR Demokritos, Software Knowledge Engineering Lab** **Athens, Greece**
Software Engineering Intern *June 2013–September 2013*
 I was assigned to update a Web Crawler based on Delphi and set up a MySQL Database with indexes to store the crawled information in an efficient manner.

Awards and Scholarships

- NSF Doctoral Consortium Travel Award, PETRA 2017
- Presidential Fellowship Award, University of Houston, Houston, TX, 2016
- Graduate Tuition Fellowship, University of Houston, Houston, TX, 2016
- 1st place in Open Public Data Hackathon by Greek Ministry of Administrative Reform and eGovernance on A.G.In.A.R.A. Project, Greece, 2014
- 1st place in Green Hackathon by Agro-Know on Stevia Toolkit Project, Greece, 2013

Grades

- GRE: Quantitative: 165, Verbal: 153, Analytical: 3.5
- TOEFL: 106
- Masters GPA (Ongoing): 3.72

Research Projects

- **University of Houston** **Houston, Texas**
Toyota Safety Research Project *2016–2017*
 Computational Physiology Lab, University of Houston
- **NCSR Demokritos** **Athens, Greece**
Big Data Europe *2015–2016*
 Software & Knowledge Engineering Laboratory (SKEL), Institute of Informatics & Telecommunications (IIT)
- **NCSR Demokritos** **Athens, Greece**
C2Learn *2014–2015*
 Software & Knowledge Engineering Laboratory (SKEL), Institute of Informatics & Telecommunications (IIT)

Notable Coursework

Graduate Courses:

- Deep Learning, Rice University, 2017
- Machine Learning, University of Houston, 2017
- Database Systems, University of Houston, 2017
- Advanced Numerical Analysis, University of Houston, 2017
- Statistical Method in Research, University of Houston, 2017

Coursera statement of accomplishment in:

- Statistical Inference, Johns Hopkins University, 2016
- Computational Neuroscience, University of Washington, 2015
- Coding the Matrix: Linear Algebra through Computer Science Applications, Brown University, 2015

- Gamification, University of Pennsylvania, 2015
- Networked Life, University of Pennsylvania, 2014
- Machine Learning, Stanford University, 2014
- Social and Economic Networks: Models and Analysis, 2014
- Data Analysis, Johns Hopkins University, 2014
- General Game Playing, Stanford University, 2013
- Web Intelligence and Big Data, Indian Institute of Technology Delhi, 2013
- Social Network Analysis, University of Michigan, 2013
- Introduction to Data Science, University of Washington, 2013

References

- Ioannis Pavlidis, Professor
University of Houston
ipavlidis@uh.edu
- Nikolaos Tsekos, Professor
University of Houston
nvtsekos@uh.edu
- Iraklis Varlamis, Assistant Professor
Harokopio University of Athens
varlamis@hua.gr
- Vangelis Karkaletsis, Research Director
NCSR "Demokritos"
vangelis@iit.demokritos.gr
- Pythagoras Karampiperis, Research Director
Agro-Know Technologies
pythk@agroknow.com