

PANAGIOTIS TOGIAS

MSc, Life Sciences Informatics

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Panagiotis is a proactive, results-driven individual with a passion for biomedical text mining and analysis utilizing statistical learning methodologies. He is well-versed in creating ML driven pipelines in order to answer complex questions in a simple manner while maintaining data quality.

Proficient with R for statistical computing and graphics in statistics and machine learning algorithms.

GitHub: github.com/ptogias

Website: togias.netlify.com

Education

University of Patras, School of Medicine MSc, Life Sciences Informatics Medical Informatics / Biostatistics Track	2017 to 2019
University of Patras, School of Economics and Business BSc, Computer Science Applications in Administration & Economics Thesis Subject: Predictive Analytics in Healthcare	2012 to 2017

Academic Experience

Laboratory of Medical Physics, University of Patras, Patras GR Research Assistant – ML/Statistics Conducted applied research combining <i>Statistical Learning and inferential statistics methodologies to uncover linking factors between structural and functional properties of High-Density Lipoproteins</i> . More specifically, the issue of $p \gg n$ was addressed while benchmarking the results of random forests with optimized parameters and partial dependence plots.	2018 to 2019
University of Patras Undergraduate Teaching Assistant <ul style="list-style-type: none">Provided feedback and guidance to students regarding the course “Computational Intelligence” for one semesterPerformed regular data entry tasks on student project grades	2016 to 2017
Laboratory of Entrepreneurship & Digital Innovation, University of Patras Undergraduate Researcher Insights extraction and research regarding business and customer psychology data with Machine Learning and statistical analysis methods. Co-authored and published seven conference papers.	2015 to 2017

Professional Experience

Causaly, London UK (remote)

2021 to Today

Clinical Data Quality Analyst

- Monitoring and accessing content quality through statistical programming methodologies
- Oversight of data quality regarding NLP machine learning pipelines
- Responsible for achieving milestone goals based on internally defined gold standards
- Construction of detailed content testing reports, analytics, and go/no-go feedback to various product workstreams
- Responsible for input data quality originating from clinical trials and EMA/FDA related data sources
- Automated content QA processes, reducing manual effort by 90%
- Correct concept terminology assessment to reflect appropriately drug/indication/molecular target pairs (UMLS/FDA based)
- Research conduction about utilization of new biomedical knowledge sources

Golfinopoulos Brothers Inc, Patras GR

2017 to 2019

Data Analyst

- Analyzed large amounts of information from company databases to discover trends and patterns, drive optimizations and improvement of product development and business strategies
- Assessed the effectiveness and accuracy of new data sources and data gathering techniques
- Conducted mathematical/statistical research to propose algorithms, proofs-of-concept and full solutions for effective decision making
- Developed processes and tools to monitor and analyze model performance and algorithm accuracy

Municipal Enterprise of Water Supply of Patras, Patras GR

2016 to 2017

Customer Relations Data Analyst Intern

Data analysis about customers' history with the company and improvement business relationships with customer. Specifically, provided client information, past sales, previous marketing efforts while summarizing all relationships between the customer and the company.

Other responsibilities:

- Administrator of the 'Registration / Social Tariff' sub department
- Administration and support of the company's online user information platform
- Management support
- Data Entry

Projects established:

- Redesign previous forms of customer inquiries
- Overhaul and redesign the company's list of reduced tariff documents

Short Portfolio

dbscrape: Scrape HTML Tables from DrugBank

Data analytics: US National Presidential Elections: Clinton vs. Trump. The LA Times / USC tracking data

EHR DREAM Challenge: Patient Mortality Prediction (Top 10 position)

Co-creator of "SOFRITO" - A PubMed Biomedical Concept Annotations Retrieval Tool

R Library

Web Article

ML Challenge

Web App

Miscellaneous

The R Journal
Volunteer reviewer

Skills & Interests

R, C, MATLAB, HTML, CSS	Programming
Weka, SPSS, MS Office, Adobe Photoshop, Adobe Muse, WordPress, Joomla, MS Visual Studio (R environment), Power BI, Tableau	Technical
MS Windows, Macintosh, Linux	Operating Systems
Statistical Learning, Predictive Analytics, Data Visualization, Descriptive Statistics, Statistical Inference, Text Mining, Medical Informatics	Research
Greek (Native Language), English (1. Michigan Certificate of Proficiency in English, 2. London Tests of English Level 3 - Upper Intermediate Communication)	Languages

Selected Conference Publications (Accepted with Double-Blind Peer Review)

Halkiopoulos C., Antonopoulou H., Giotopoulos K., **Togias P.**, Theologos K., “Cloud Computing Services in E-Business: Case Study in Greek Companies during Economic Recession”, 5th International Conference on Contemporary Marketing Issues, June 2017, Thessaloniki

Giannoukou I., Antonopoulou H., **Togias P.**, Panas G., Halkiopoulos C., Gkintoni E., “*Evaluation of Online Booking Systems: Greek Tourists’ perspective in Booking Behavior Evaluation Explored via Data Mining Techniques during Economic Recession*”, 5th International Conference on Contemporary Marketing Issues, June 2017, Thessaloniki

Antonopoulou H., Gkintoni E., Michailidou J., **Togias P.**, Halkiopoulos C., “*The Role of Brand Personality in e-Marketing: A Computational Approach*”, 5th International Conference on Contemporary Marketing Issues, June 2017, Thessaloniki

Togias P., Gkintoni E., Antonopoulou H., Halkiopoulos C., “*Using Data Mining Techniques to explore Shopping Addiction and Emotion Based Decision Making in Consumers*”, 5th International Conference on Contemporary Marketing Issues, June 2017, Thessaloniki

Gkintoni E., Halkiopoulos C., Antonopoulou H., **Togias P.**, Mitropoulos A., “Emotional Intelligence in Social Network Consumers”, 4th International Conference on Contemporary Marketing Issues, June 2016, Heraklion, Crete

Halkiopoulos C., **Togias P.**, Panagiotarou A., Gkintoni E., Antonopoulou H., “E-marketing and online advertising: Case study in Greek companies during economic crisis”, 4th International Conference on Contemporary Marketing Issues, June 2016, Heraklion, Crete

Gkintoni E., **Togias P.**, Halkiopoulos C., Giotopoulos K., Antonopoulou H., “Burnout: Emerged issue in business during economic recession in Greece”, 4th International Conference on Contemporary Marketing Issues, June 2016, Heraklion, Crete

Togias P., Margaritis S., “Data Analytics & Intelligent Timeline Data Predictive Systems Case Study: The Greek Consumer Value Index”, 13th Conference of Management Science and Technology (In Greek), May 2016, Athens

Journal Publications

Togias P., Theologos K., “Machine Learning & Big Data in Sports. Case Study: England's Premier League”, Astrolavos Journal of New Technologies (In Greek), 2017, Hellenic Mathematical Association