

# Alexandros Ioannidis

6 Blackfriars Road, Glasgow, G1 1QL

🌐 [linkedin.com/in/alexandrosioannidis](https://www.linkedin.com/in/alexandrosioannidis)    ✉ [alexioanid@yahoo.gr](mailto:alexioanid@yahoo.gr)    🌐 [www.github.com/it21208](https://www.github.com/it21208)  
European Driving License: A2, B    ✉ [alexandros.ioannidis@strath.ac.uk](mailto:alexandros.ioannidis@strath.ac.uk)    📞 +306987312863

## EDUCATION

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### University of Strathclyde

*PhD in Computer and Information Science*

**Glasgow, UK**

*September 2017 - Present*

### University of Strathclyde

*Post-Graduate Certificate in Research Professional Development*

**Glasgow, UK**

*September 2017 - June 2019*

Collected 60/60 E.C.T.S. credits

### University of Strathclyde

*Master of Science in Advanced Computer Science*

**Glasgow, UK**

*September 2016 - August 2017*

Grade of Degree: Merit ( 69% )

### Harokopio University of Athens

*Bachelor of Science in Informatics and Telematics*

**Athens, Greece**

*September 2012 - July 2016*

Grade of Degree: Merit ( 7.5 / 10 )

### 2nd General Lyceum of Vrilissia

*Technological Stream*

**Athens, Greece**

*September 2009 - July 2012*

Grade of Degree: Merit ( 17.8 / 20 )

## KEY SKILLS

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- Programming Languages: Java, Python, R, HTML/CSS, Javascript, MySQL, SQL Oracle.
- Phpmyadmin, Apache Server 2, Glassfish Server, CMS Tools (i.e. Wordpress, OpenCart, Xcart).
- Microsoft Office Suite, LaTeX, BibTeX, Slack, Trello.
- In my 12-month placement in the Central Bank of Greece, I displayed organisational, communication and analytical skills in assisting teams within the ESSM division.
- Experienced with the following Datasets and Test Collections: PubMed article data, Movie Lens datasets, Netflix dataset, Blood Transfusion Service dataset (UCI ML repository), CDNOW transactional dataset, Titanic dataset (Kaggle repository).
- I am a disciplined, dedicated and strong-willed professional with great aspirations. I am willing to put in the work necessary to deliver projects.

## ACADEMIC PROJECTS

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### Ph.D. Thesis | Doctoral Researcher

*Aug 2017 - Present*

- Research topic on Information Retrieval and Machine Learning for conducting Systematic Reviews.
- My research focuses on reducing the medical cost of assessing documents by using, extending and developing information retrieval tool-kits and applying continuous active learning with supervised Machine Learning techniques in Java and Python to create intelligent digital search assistants.
- These assistants are developed in such way to collaborate with human reviewers to complete the tasks of creating systematic reviews in information retrieval.
- Evaluating information retrieval algorithms.

### **Master's Thesis | Post-graduate Researcher**

*Feb 2017 – Jul 2017*

- The purpose of the research was to assert the generality of the predictive RFMTC model as an improved more customisable alternative of the RFM marketing model and other Machine Learning algorithms (i.e. SVM, K-Means).
- And to justify the additional implementation complexity of some model parameters such as the Time since first purchase or donation of a customer in a certain period and the Churn rate as a productive one. I used extensively the R scripting language, the CRAN repository for the minimisation of objective non-linear functions and the Excel Solver Add-in.

### **Bachelor's Thesis | Undergraduate**

*Jan 2016 – May 2016*

- Extended a system that encourages Movie Lens users by proposing new films tailored to the needs of each user. More specifically, the SVD algorithm (<http://www.timelydevelopment.com/demos/NetflixPrize.html>) was parallelised in Java and Apache Spark, the third optimal algorithm in the Kaggle competition conducted by Netflix. The objective of the competition was to find the best collaborative filtering algorithm for predicting user ratings for films based on previous reviews.

## **EXPERIENCE**

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### **Centre of Information Technology Support of the Hellenic Army**

**Athens, Greece**

*Technology Analyst*

*August 2018 - April 2019*

- Operated the Janus strategy simulation software.
- Operated the Joint Exercise Management Module (JEMM).
- Contributed in the interconnection of VBS3, SteelBeast, and JCATS through DIS.
- Installed and synchronised an indoor camera with Idomeneus a high-tech software that creates a virtual reality military indoor firing range using lasers and video imagery.
- Used simulation software interconnection tools and Excel to perform vlookup operations and produce para-metric spreadsheets and presentations.
- Utilised monitoring software packages i.e. Nagios, WhatsUpGold Network monitoring, PRTG.

### **Newslines**

**Glasgow, UK**

*Research Analyst | Automation of Newslines pipeline*

*August 2017 - October 2017*

- Built a continuous delivery model to reduce editorial time for the development of articles.
- Text processing on media news stream using Python libraries (i.e. nltk, beautiful soup, scikit-learn, pandas, numpy).
- Understanding the Wordpress structure of MySQL database for schema objects and their relations primary and foreign keys.
- Extracting automatically original source links from summary articles. Fetching the HTML content from the source URLs, and extraction of title and clean text of articles found on the WWW. Extraction of named events and named entities with Stanford NER toolkit for classification.
- Text feature extraction, tokenisation, build-analysis of text, bag of words representation, common and TF\_IDF term weighting vectoriser usage, train and test with ML models (LDA, SVM).

### **Central Bank of Greece (BoG)**

**Athens, Greece**

*Technology Analyst | Internship*

*July 2015 - July 2016*

- Participated in the migration to the Target II Security Euro-system.
- Used the FT Console System for monitoring components of the Secondary Securities Market Department.
- Contributed to the Bonds Report Server System written in VB2012 and participated in the development of an application which facilitated remote access for users in the Dematerialised securities System division.
- Managed the Test database.

## **AWARDS AND ACHIEVEMENTS**

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- Ph.D. Scholarship Award (Stipend and Bursary), University of Strathclyde, August 2017
- 3rd place in Machine Learning Workshop, JP Morgan Glasgow, December 2016
- 1st place Design Challenge, TEDX Strathclyde, November 2016
- Fluent in English and Greek, Intermediate knowledge of Portuguese
- I have completed the original Athens Marathon in 2015

## WORKSHOPS AND CONFERENCES

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- Big Data Analytics Introduction, JP Morgan Glasgow, May 2017.
- FOSSCOMM 2016, University of Piraeus.
- Agriculture Development Systems, ATHENA Research and Innovation Centre, November 2014-2015.
- Presentation and Communication, British Council in Technopolis Innovation Centre, 2014.
- SiSRG research group presentations, University of Strathclyde, 2017-Present.
- SICSA PhD Conference 2019, University of Stirling, 2019
- ICMI 2017, University of Glasgow, I was a Student Volunteer <https://icmi.acm.org/2017/index.php?id=people>

## REFERENCES

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- Central Bank of Greece, Directors Dr. Eythimios Gatzonas and Mr. George Stoubos.
- Centre of Information Technology Support of the Hellenic Army, Dr. Ioannis Malandrakis (Coloner RI).