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Experience ___

ACADEMIA

PhD Researcher Glasgow, Scotland

SCHOOL OF COMPUTING SCIENCE, INFORMATION RETRIEVAL GROUP - UNIVERSITY OF GLASGOW

Apr. 2014 - Feb. 2019

- Identify research problems and address them with critical thinking and scientific rigour.
- Develop and test novel algorithms and statistical models.
- Design of research experiments.
- Software development: collect relevant data and implement experiments.
- · Statistical analysis of experimental data.
- · Adequately interpret and communicate research findings.

Research Assistant Glasgow, Scotland

URBAN BIG DATA CENTRE (UBDC) - UNIVERSITY OF GLASGOW

- Apr. 2014 Feb. 2019 • Developing scripts for downloading data from different online sources with different formats and restrictions.
- Preprocessing and cleaning of Big Datasets (Cloudera Manager, Hadoop, Spark).
- Producing experimental results and analysis for researchers in other areas.

Undergraduate Tutoring

University Of Glasgow Sep. 2015 - Jun. 2017

- · Help and guide many groups of students through their studies.
- Programming (Python).
- · Computer systems & databases.
- Human-computer interaction
- · Algorithm foundations.

INDUSTRY

Junior Backend Engineer

Glasgow, Scotland

Glasgow, Scotland

TWIG WORLD - TWIG-WORLD.COM

Jan. 2014 - Apr. 2014

- Successfully developed, maintained and tested complex database-driven web application.
- · Adopted and proposed new software development methodologies and experimented with new tools and technologies.
- · Python/Django.
- Test Driven Development (TDD).
- Continuous Integration (CI).
- · CVS (GIT).

CANARIAS.COM

• MySQL and Object-Relational Mapping (ORM).

Software Engineer & Data Analyst

Tenerife, Spain

May. 2013 - Aug. 2013

• Developed an email marketing web application integrated into the company's software ecosystem.

- PHP/Javascript (Frontend and Backend).
- Microsoft SQL Server.
- Data mining for the Marketing Department (Weka).

Software Engineer Tenerife, Spain

FREELANCE Sep. 2012 - Sep. 2013

- · Analysis, design and implementation of a press-oriented CMS that provide local and small clients with a tool that helps them to automate and simplify the management of an online newspaper.
- Full Stack (Frontend and Backend).
- · Python/Django.
- Test Driven Development (TDD).
- Continuous Integration (CI).
- · CVS (GIT).
- MySQL and Object-Relational Mapping (ORM).

Education _

PhD in Computing Science (Information Retrieval and Machine Learning)

Glasgow, Scotland

University Of Glasgow Apr. 2014 - Nov. 2018

PhD thesis title: "Inferring the Geolocation of Tweets at a Fine-Grained Level" (http://theses.gla.ac.uk/41007/).

Bachelor's Degree in Computer Engineering

Tenerife, Spain

UNIVERSITY OF LA LAGUNA

2007 - 2013

I obtained my Bachelor degree at the University of La Laguna, which has a focus on Information Systems and Software Engineering.

Research _____

PHD THESIS - INFERRING THE GEOLOCATION OF TWEETS AT A FINE-GRAINED LEVEL

In my PhD Thesis, I aimed to tackle the problem of inferring the geolocation of individual non-geotagged social media posts at a fine-grained level (i.e. building or neighbour level) using pieces of evidence from the post (text and metadata). To this end, I have proposed novel models and methods that can geolocalise a post with an average error of 1 km distance. Besides, I demonstrated the generalisation and effectiveness of such models in a real-world practical application related to the detection of traffic incidents from social media data. Due to the lack of geotagged posts in Social Media streams, this work provides scientists with an enhanced sample of quality geolocated social media posts for their analysis and applications.

RESEARCH PUBLICATIONS

During my PhD, I had the opportunity of conducting interdisciplinary research and published multiple research papers that have contributed to the fields of Computing Sciences, as well as Social Sciences and Geographic Information Sciences.

Learning to Geolocalise Tweets at a Fine-Grained Level

2018

JORGE DAVID GONZALEZ PAULE, YASHAR MOSHFEGHI, CRAIG MACDONALD AND IADH OUNIS.

In Proc. of the 27th International Conference on Information and Knowledge Management (CIKM'18)

On Fine-Grained Geolocalisation of Tweets and Real-Time Traffic Incident Detection

2018

JORGE DAVID GONZALEZ PAULE, YERAN SUN AND YASHAR MOSHFEGHI.

In Information Processing & Management, Elsevier.

Beyond Geo-Tagged Tweets: Exploring the Geo-Localisation of Tweets for Transportation Applications

2018

JORGE DAVID GONZALEZ PAULE, YERAN SUN AND PIYUSHIMITA THAKURIAH.

In Transportation Analytics in the Era of Big Data, Springer.

On Fine-Grained Geolocalisation of Tweets

2017

JORGE DAVID GONZALEZ PAULE, YASHAR MOSHFEGHI, JOEMON JOSE AND PIYUSHIMITA THAKURIAH.

In Proc. of the 3rd International Conference on the Theory of Information Retrieval (ICTIR'17). Amsterdam, Netherlands.

Spatial analysis of users-generated ratings of yelp venues

2017

YERAN SUN AND JORGE DAVID GONZALEZ PAULE.

In Open Geospatial Data, Software and Standards

Sensing spatiotemporal patterns in urban areas: analytics and visualizations using the integrated multimedia city data platform

2016

Piyushimita Thakuriah, Katarzyna Sila-Nowicka and **Jorge David Gonzalez Paule**

In Built Environment 42(3), pages 415-429.



DATA SCIENCE

Theoretical Background Information Retrieval; Machine Learning; Natural Language Processing; Data (Text) Mining;

Machine LearningGensim; Scikit-learn; TensorFlow; WekaData AnalysisPandas; Numpy; SciPy; Jupyter Notebook

NLP and IR NLTK (Python); SpaCy (Python); Lucene (Java); Terrier (Java)

Big Data Cloudera Manager; MapReduce (Hadoop); Spark; Pig

SOFTWARE ENGINEERING

Programming Languages Python; Java; C/C++; Bash

Software Development TDD; Continuous Deployment/Integration; Agile; SCRUM; Pair Programming

Dev Tools Git; VirtualBox; Vagrant; Docker; Jenkins **Operating Systems** Linux (CentOS,Ubuntu); Windows; Mac OS X **Web Technologies** HTML; CSS; JavaScript; Python/Django

DBMS MySQL; PostgreSQL; Microsoft SQL Server

OTHERS

Languages Spanish (Native); English (Professional working proficiency)

Documents Spanish Passport; Eligible to work in the EU

References Under request