

Ms. Ana A.

PHD STUDENT · AI ENGINEER

Education

University of Alcalá

PH.D IN COMPUTER SCIENCE, APPLIED MATHEMATICS DEPARTMENT

Alcalá de Henares, Spain

Feb. 2018 - PRESENT

- Advisors: David Orden and Iván Marsá
- Participated in Intensive Research Program in DCCG, with Housing Accommodation Grant (*Barcelona*, Apr - Jun, 2018)
- Visiting researcher under Jorge Urrutia at Universidad Nacional Autónoma de México (*Ciudad de México*, Aug-Sep, 2018)

Polytechnic University of Madrid (UPM)

M.SC IN ARTIFICIAL INTELLIGENCE

Madrid, Spain

Sep. 2016 - Sep. 2017

- Masters Thesis (advisor: Antonio Jiménez): *Aircraft loss of separation prediction using Bayesian networks*
- Selected projects:
 - Implemented a Convolutional Neural Networks automatic news classifier and a QA
 - Implemented an ant colony optimization algorithm for TSP with genetic algorithm parameter tuning
 - Developed an ontology of eSports with OWL+ELK

University of Alcalá

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Alcalá de Henares, Spain

Sep. 2012 - Jun. 2016

- Semester at Oxford Brookes + Cambridge Advance Exam (Sep.2015-Feb 2016)
- Member of Student Council Board of Directors
- End-Of-Degree Project (with Distinction Award) : *Study of theoretical upper bounds and computational approximations to the Spectrum Graph Coloring problem*

Work Experience

University of Alcalá

RESEARCHER & TA

Alcalá de Henares, Spain

Feb. 2018 - PRESENT

- Discrete Mathematics course TA

CRIDA ATM R&D

RESEARCH INTERN

Madrid, Spain

Jan. 2017 - Sep. 2017

- Junior data analyst working on H2020 SafeClouds project: collection, pre-processing and modelling of airborne safety conflicts data
- Other projects: speech recognition, extracting knowledge out of cross-lingual controller conversations
- Implemented Vaadin framework views for Spanish air traffic authorities decision-making software PERSEO

University of Alcalá

UNDERGRADUATE RESEARCHER FOR EUROPEAN PROJECT ICEBERG IN SOFTWARE QA

Alcalá de Henares, Spain

Jan. 2015 - Jun. 2015

- Defined model-based processes to identify software development activities resulting from poor software quality

Honors & Awards

2018-2019 **Faculty Training Doctoral Fellowship**, (FPU)

University of Alcalá

2017 **Free Tuition Award for M.Sc.**, (top 3% of the year)

UPM

2016 **Extraordinary End-Of-Degree Award**, (top of the graduating class)

University of Alcalá

2015 **Undergraduate Researcher Fellowship**, (for top 10 undergraduate researchers in University)

University of Alcalá

Publications

2019? **Detecting inclusions for \mathcal{O} -convex hulls of bichromatic point sets**, Carlos Alegría-Galicia, Ana Álvarez-Suárez, David Orden, Carlos Seara, Jorge Urrutia

In preparation

Spectrum graph coloring to improve Wi-Fi channel assignment in a real-world scenario via edge

2018 **contraction**, *Discrete Applied Mathematics*, David Orden, Ivan Marsa-Maestre, Jose Manuel Gimenez-Guzman, Enrique de la Hoz, Ana Álvarez-Suárez

Published

Skill Summary

Python (OpenCV, sk-learn, Pandas, NetworkX, matplotlib, TensorFlow), R, MATLAB, **Java** (Weka), Scala, **SQL**, Talend, Hadoop, Linux, Git
Language Skills: **English** (fluent), **Spanish** (native), **Japanese** (intermediate) (4-year postgraduate Japanese course), **French** (basic)