

Francisco B. Valero (Fran Valero)

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Barcelona, Spain

Work Experience

- **Applied Scientist**
Amazon.com, Inc.
Applying NLP and ML techniques to customer reviews on Community Shopping managed by Hani Al-Shater.
03/2022 – Ongoing
Barcelona, Spain
- **Data Scientist**
Amazon.com, Inc.
Working on two science projects in the Search Science and AI department managed by Lluís Màrquez:
 - Building an open source search evaluation dataset.
This work was presented as the dataset for the Amazon Product Search competition in the Conference on *Knowledge Discovery and Data Mining* (KDD 2022).
 - Applying knowledge distillation based on few shot learning for short text generation.06/2021 – 03/2022
Barcelona, Spain
- **Research & Development Intern**
Deezer S.A.
Used NLP and ML techniques to encode the podcast's textual metadata for searching supervised by Elena V. Epure.
The work performed during this internship was accepted as a full paper in the *European Conference on Information Retrieval* (ECIR 2022).
11/2020 – 05/2021
Paris, France
- **Research Engineer Intern**
Kustomer, Inc. (Acquired by Meta Platforms, Inc.)
Worked on fine-tune with pre-trained Transformers models for intent detection managed by Víctor Peinado.
06/2020 – 09/2020
Madrid, Spain
- **Research Engineer**
Department of Software and Computing Systems, University of Alicante
Used ML models for estimating the quality of the machine translation systems supervised by Mikel L. Forcada for the *EFFORTUNE Spanish project* (TIN2015-69632-R).
04/2019 – 09/2019
Alicante, Spain
- **Research Intern**
Department of Software and Computing Systems, University of Alicante
Worked on two research projects supervised by Juan Antonio Pérez-Ortiz and Felipe Sánchez-Martínez:
 - Used neural models as RNN and Seq2Seq for sequence labeling problems.
 - Used cross-lingual word embeddings for word translation.01/2018 – 04/2019
Alicante, Spain

Educational Background

- **Master's Degree in Artificial Intelligence, Pattern Recognition and Digital Imaging**
Polytechnic University of Valencia
Master's Thesis: *Data augmentation for text classification*
Advisor: Francisco Casacuberta
09/2019 – 09/2020
Valencia, Spain
- **Bachelor's Degree in Compute Science Engineering**
University of Alicante
High Academic Performance Group
Bachelor's Thesis: *Neural Part-of-Speech tagging*
Advisors: Juan Antonio Pérez-Ortiz and Felipe Sánchez-Martínez
09/2014 – 02/2019
Alicante, Spain

Conference papers

- **Francisco B. Valero**, Marion Baranes, Elena V. Epure. Topic Modeling on Podcast Short-Text Metadata. In 44th *European Conference on Information Retrieval (ECIR 2022)*, Stavanger, Norway.
- Chandan K. Reddy, Lluís Marquez, **Fran Valero**, Nikhil Rao, Hugo Zaragoza, Sambaran Bandyopadhyay, Arnab Biswas, Anlu Xing, Karthik Subbian. Shopping Queries Dataset: A Large-Scale ESCI Benchmark for Improving Product Search . In 28th *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD 2022)*, Washington DC, U.S.

Grants

- Research Initiation Grant, *Ministerio de Educación Cultura y Deporte de España (MECD)* 2018/2019

Courses and training

- Deep Learning Specialization, online at Coursera, 2018.

Languages and Technologies

Programming Languages: Python, L^AT_EX, Java, C/C++, bash

Technologies: NumPy, PyTorch, scikit-learn, NLTK, Transformers, SciPy, pandas, linux terminal, Git, Docker

Natural Languages: Native in Spanish and professional working proficiency in English

Honors and Awards

- 3rd place in PAN@CLEF 2020 Author Profiling Competition

Reference list

- **Hani Al-Shater** (haniahma@amazon.com)
Amazon.com, Inc.
Berlin, Germany
- **Lluís Màrquez** (lluismv@amazon.com)
Amazon.com, Inc.
Barcelona, Spain
- **Elena V. Epure** (epure@deezer.com)
Deezer S.A.
Paris, France
- **Víctor Peinado** (victor.peinado@kustomer.com)
Kustomer, Inc.
Madrid, Spain
- **Mikel L. Forcada** (mlf@dlsi.ua.es)
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- **Juan Antonio Pérez-Ortiz** (japerez@dlsi.ua.es)
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