

Fran Valero

APPLIED SCIENTIST · ML/NLP

Barcelona, Spain

✉ (+34) 678 812 474 | 📩 franbvalero@gmail.com | 🏷 franbvalero.github.io | 🐾 franbvalero | 📱 franbvalero | 🐦 @franbvalero | 🎓 Fran Valero

Work Experience

Amazon

Barcelona, Spain

APPLIED SCIENTIST

Apr. 2022 - Present

- Applied ML/NLP to several community feedback (reviews and Q&A) projects to inform customer purchase decisions. The most impactful projects were:
 - AI-generated customer review highlights (see Amazon blog posts [1](#) and [2](#))
 - Ranking text reviews
- Lead ML/LLM modelling to increase the automation rate for moderating different content types (text, image, and video), resulting in an annual cost reduction of MM\$ in human annotations

Amazon

Barcelona, Spain

DATA SCIENTIST

Jun. 2021 - Mar, 2022

- Worked on building a shopping queries dataset for improving the quality of search results. This work was presented at the Amazon Product Search competition as a part of KDD 2022 [1]

Deezer

Paris, France

R&D INTERN

Nov. 2020 - May. 2021

- Worked on podcast topic modeling using textual metadata. This work was accepted as a full paper at ECIR 2022 [2]

Kustomer

Madrid, Spain

ML/NLP ENGINEER INTERN

June. 2020 - Sep. 2020

- Worked on enhancing the intent capabilities in CRM chats fine-tuning pre-trained transformers models

Department of Software and Computing Systems, University of Alicante

Alicante, Spain

RESEARCH ENGINEER

Apr. 2019 - Sep. 2019

- Worked on quality estimation for machine translation systems using regression models

Department of Software and Computing Systems, University of Alicante

Alicante, Spain

RESEARCH INTERN

Jan. 2018, Mar. 2019

- Worked on several projects in the area of text sequence labelling and machine translation using RNNs, Seq2Seq and cross-lingual word embeddings

Education

Polytechnic University of Valencia

Valencia, Spain

MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND DIGITAL IMAGING

Sep. 2019 - Sep. 2020

- Master's Thesis: *Data augmentation for text classification* advised by Francisco Casacuberta

University of Alicante

Alicante, Spain

BACHELOR'S DEGREE IN COMPUTER SCIENCE ENGINEERING

Sep. 2014 - Feb. 2019

- High Academic Performance Group
- Bachelor's Thesis: *Neural Part-of-Speech tagging* advised by Juan Antonio Pérez-Ortiz and Felipe Sánchez-Martínez

Publications

- [1] Chandan K. Reddy et al. *Shopping Queries Dataset: A Large-Scale ESCI Benchmark for Improving Product Search.* 2022. arXiv: 2206.06588 [cs.IR]. URL: <https://arxiv.org/abs/2206.06588>.
- [2] Francisco B. Valero, Marion Baranes, and Elena V. Epure. "Topic Modeling on Podcast Short-Text Metadata". In: *44th European Conference on Information Retrieval (ECIR)*. 2022.

Skills

Programming Languages

Python, L^AT_EX, Java, C/C++, bash, SQL

Technologies

PyTorch, PySpark, Transformers, scikit-learn, linux terminal, Git, Docker, AWS

Compute science

Data structures, algorithms and object-oriented software design

Natural Languages

Native in Spanish and professional working proficiency in English