

Guillem Ramírez

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Right to work in the UK (pre-settled status)

Past projects at <https://guillemram97.github.io/> (outdated)

EDUCATION

University of Edinburgh (UoE)

Sep. 2022 – Ongoing

PhD student in Natural Language Processing. Supervised by Prof. Ivan Titov

Edinburgh, UK

Research interests: orchestration and optimisation of LLMs, Active Learning, PEFT, Domain Adaptation

University of Edinburgh (UoE)

Sep. 2020 – Sep. 2021

Masters of Sciences in Artificial Intelligence (with distinction)

Edinburgh, UK

Massachusetts Institute of Technology (MIT)

Sep. 2019 – July 2020

Final year of BSc at Prof. Marin Soljačić's group

Cambridge, USA

Defended my Bachelor's thesis (with distinction)

Technical University of Catalonia (UPC)

Sep. 2015 – May 2020

Dual Bachelor of Science in Mathematics and Engineering Physics

Barcelona, Spain

Double degree coordinated by the Center of Superior Interdisciplinary Formation (CFIS) at UPC.

CFIS is a five years excellence program which offers obtaining two independent degrees.

WORK EXPERIENCE

ML intern at Algomio

Jun. 2022 – Sep. 2023

Building a Dutch summarisation model in collaboration with VRT.

London, UK

Research Assistant at the University of Edinburgh

Sep. 2021 – June 2022

Researching controlled text generation for data augmentation and machine translation.

Edinburgh, UK

Adapting Machine Translation pipelines to a terminology list from the health domain. This involved finetuning and dockerising models for the BBC. Project lied within the [GoURMET](#) project of the European Union.

Data scientist intern at Base Technology & Information Services

Jun. 2018 – Sep. 2018

Automatization of the extraction of information from CVs. Migrating the company's database

Barcelona, Spain

and creating different indicators (SQL queries) of the company that are automatically updated on Data Studio.

PAPERS

Cache & Distil: Optimising API calls to Large Language Models (2023)

Guillem Ramírez, Matthias Lindemann, Alexandra Birch, Ivan Titov. Arxiv submission: [2310.13561](#)

On a Novel Application of Wasserstein-Procrustes for Unsupervised Cross-Lingual Learning (2020)

Guillem Ramírez, Rumen Dangovski, Preslav Nakov, Marin Soljačić. Arxiv submission: [2007.09456](#)

Empirical Evidence for the Continuing Need to "Think Small First" in UK Company Law (2023)

Jonathan Hardman, Guillem Ramírez. On European Business Organization Law Review

OTHER PROJECTS

Generating contextual numeral embeddings for catastrophic event victims

Master's thesis in collaboration with Prof. Ryan Cotterell's lab (ETH Zurich). Researched a transformation of static word embeddings that incorporates context to numerals. This transformation was applied for victims representation in the context of crisis events.

PRIZES AND SCHOLARSHIPS

"la Caixa" foundation fellow (2022)

Excellence Scholarship to the best Spanish postgraduate students. Scholarship code: LCF/BQ/EU22/11930079

ELLIS PhD student (2022)

Coordinated by Prof. Ivan Titov (University of Edinburgh) and Prof. André F. T. Martins (Instituto Superior Técnico, University of Lisboa)

UKRI Centre for Doctoral Training in Natural Language Processing (2022)

Four year PhD program. Grant code: EP/S022481/1

TECHNICAL SKILLS

Languages Python, C++, Bash, Java, Matlab, R, SQL (PostgreSQL, MySQL)

Deep learning frameworks Pytorch, Tensorflow, Fairseq

Hardware HPC (SLURM, Kubernetes), Multi-GPU training

Tools Docker, AWS, Microsoft Azure, Google Cloud, Git

ACADEMIC DUTIES

Teaching Assistant in Foundations of Natural Language Processing (ongoing)

Preparation of course materials: coursework, tutorials and laboratories. Weekly office hours. Answering online queries from students.