

Javier Vela Tambo

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SUMMARY

PhD student in Computer Science at WPI, researching **Distributed Quantum Computing** and **Quantum Cloud**. Background in Data Science, Natural Language Processing and DevOps/Cloud automation, with experience spanning academic research and industry engineering roles.

WORK EXPERIENCE

Research Assistant Worcester Polytechnic Institute (WPI), MA Aug 2025 – Present

- Beginning PhD research in Distributed Quantum Computing and Quantum Cloud.
- Exploring resource allocation and scheduling strategies for workloads across multiple QPUs.
- Contributing to the development of educational materials and modules for quantum computing topics.

Data Scientist — NLP Pyrenean Institute of Ecology (IPE-CSIC), Spain Jun 2024 – Aug 2025

- Designed the CienALLM methodology for meteorological impact extraction using GenAI and LLMs.
- Built and maintained data pipelines for large Spanish news corpora.
- Researched open-source LLM capabilities for extracting structured data from unstructured text.

DevOps Engineer — CI/CD Automation Developer Ericsson, Spain Jul 2022 – Jun 2024

- Led CI/CD automation and managed containerized deployments for product teams.
- Maintained multi-cloud infrastructure across AWS, Azure, and vSphere.

EDUCATION

PhD in Computer Science	Worcester Polytechnic Institute, USA		Aug 2025 – Present
MS in AI Research	Menéndez Pelayo International University, Spain	GPA: 9/10	Oct 2024 – Sep 2025
BS in Computer Engineering	University of Zaragoza, Spain	GPA: 8.23/10	Sep 2018 – Jun 2023
Exchange Program (CS)	University of Rhode Island, USA	GPA 4.0	Sep 2021 – May 2022

SELECTED PUBLICATIONS

Miguel López-Otal, Fernando Domínguez-Castro, Borja Latorre, **Javier Vela-Tambo**, Jorge Gracia (Apr. 2025). “SeqIA: A Python Framework for Extracting Drought Impacts from News Archives”. In: *Environmental Modelling & Software* 187, p. 106382. ISSN: 13648152. DOI: 10.1016/j.envsoft.2025.106382.

Javier Vela, Unai Arronategui, José Ángel Bañares, José Manuel Colom (2025). “Distributed Simulation with Efficient Fault Tolerance”. In: *Economics of Grids, Clouds, Systems, and Services*. Vol. 15358. Cham: Springer Nature Switzerland, pp. 261–274. ISBN: 978-3-031-81225-5 978-3-031-81226-2. DOI: 10.1007/978-3-031-81226-2_23.

Javier Vela, Jorge Gracia (2022). “Cross-Lingual Ontology Matching with CIDER-LM: Results for OAEI 2022.” In: *Om@ Iswc*, pp. 158–165.

SKILLS

Programming	Python, Rust, C/C++, Bash	ML/NLP	PyTorch, Keras, Transformers
Data Science	Pandas, NumPy, scikit-learn	Cloud/Infra	AWS, GCP, Terraform, Ansible
Containers/CI/CD	Docker, Kubernetes, Flux CD	Systems Administration	Linux, KVM/Libvirt, QEMU

LANGUAGES

English Cambridge Advanced (C1); TOEFL 105/120 **Spanish** Native Proficiency