



Ibai Guillén Pacho

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

PhD Researcher in Artificial Intelligence (AI) at the Universidad Politécnica de Madrid (UPM), where I am a member of the Ontology Engineering Group (OEG), under the supervision of Dr. Oscar Corcho (h-index: 58) and Dr. Carlos Badenes-Olmedo (h-index: 12). I hold a Bachelor's degree in Computer Engineering and Digital Business Transformation from the University of Deusto (UD), and later completed a Master's in AI at UPM. Currently, I am pursuing my doctoral thesis in the field of Natural Language Processing (NLP), specifically focused on interpretable temporal analysis of large-scale text collections. This work is supported by a competitive predoctoral fellowship (PIPF-2022/COM-25947), awarded by the Community of Madrid through a public call (BOCM-20230109-26), in recognition of both my academic trajectory and the potential of my research.

Throughout my research career, I have worked in three research groups: DeustoTech (UD), the Ontology Engineering Group (UPM), and the Department of Computer Science at the University of Turin (UniTo). At DeustoTech, I contributed to a project focused on the application of blockchain technologies for auditing and traceability. Later, at the Ontology Engineering Group, I developed my current research line on interpretable temporal analysis of large text corpora. As part of this work, I was invited in 2023 by UniTo to give a talk on my research, which led to an academic collaboration and a research stay at the institution in 2024. This collaboration resulted in a publication at the Tenth Italian Conference on Computational Linguistics (CLiC-it) 2024, the leading NLP conference in Italy.

My research output includes scientific publications co-authored with members of all the institutions where I have worked, including a journal article in a Q2-ranked publication and several contributions to specialized workshops. In addition, I co-organized the FLARES shared task at IberLEF 2024, an initiative focused on the reliability of Spanish-language news, which allowed me to gain valuable experience in scientific coordination and collaborative work within the NLP community. Altogether, this trajectory reflects a growing research profile (h-index: 3) and an international projection grounded in interdisciplinary and cooperative work.









Ibai Guillén Pacho

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Date of birth:	20/05/1999
Nationality:	Spain
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Current professional situation

Employing entity: Universidad Politécnica de **Type of entity:** University Madrid

Department: Ontology Engineering Group, Escuela Técnica Superior de Ingenieros Informáticos Professional category: Researcher R1 - Postgraduate non-doctoral researcher

City employing entity: Madrid, Community of Madrid, Spain

Phone: (34) 910673091

Start date: 02/11/2022

Type of contract: Grant-assisted student (pre or **Dedication regime:** Full time post-doctoral, others)

Primary (UNESCO code): 120304 - Artificial intelligence

Performed tasks: Use of natural language processing techniques and language models. Facilitating the temporal analysis of document collections based on the combination of probabilistic models with knowledge representation techniques.

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad Politécnica de Madrid	Research Assistant	01/03/2022
2	Everis	Internship	01/09/2020
3	Universidad de Deusto	Research Assistant	01/10/2019

1 Employing entity: Universidad Politécnica de Type of entity: University Madrid

Department: Ontology Engineering Group, Escuela Técnica Superior de Ingenieros Informáticos **City employing entity:** Madrid, Community of Madrid, Spain

Professional category: Research AssistantLeadership and management (Y/N): NoStart-End date: 01/03/2022 - 31/07/2022

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Performed tasks: Use of natural language processing techniques and language models. Development and study of topics of COVID-19 scientific articles. Analysis of the evolution over time of the use of drugs in the treatment of SARS-CoV-19.





2 Employing entity: Everis Type of entity: Business **Department:** Arquitectura City employing entity: Bilbao, Basque Country, Spain Professional category: Internship Leadership and management (Y/N): No Start-End date: 01/09/2020 - 28/02/2021 Type of contract: Grant-assisted student (pre or post-doctoral, others) Performed tasks: Integration and migration of services to Azure cloud infrastructures. Resolution of front-end incidents. Development of APIs and documentation. **3 Employing entity:** Universidad de Deusto Type of entity: University Department: DeustoTech City employing entity: Bilbao, Basque Country, Spain Professional category: Research Assistant Leadership and management (Y/N): No Start-End date: 01/10/2019 - 30/06/2020 Type of contract: Grant-assisted student (pre or post-doctoral, others) Dedication regime: Part time Performed tasks: Development of a platform for auditing open data on blockchain. Development of smart-contracts on the Ethereum network. Development of a plugin for the CKAN platform.







Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- University degree: Higher degree
 Name of qualification: Master's Degree in Artificial Intelligence
 Degree awarding entity: Universidad Politécnica de Type of entity: University Madrid
 Date of qualification: 02/11/2022
 Average mark: Good
- 2 University degree: Higher degree
 Name of qualification: Degree in Computer Engineering
 Degree awarding entity: Universidad de Deusto
 Type of entity: University
 Date of qualification: 08/07/2021
 Average mark: Good
- University degree: Higher degree
 Name of qualification: Specialisation in Digital Business Transformation
 Degree awarding entity: Universidad de Deusto
 Type of entity: University
 Date of qualification: 08/07/2021
 Average mark: Good

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

Training title: Scopus Online WorkshopAwarding entity: Fundación Española para la Ciencia y la Tecnología (FECYT)End date: 24/03/2023Duration in hours: 9 hours

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Basque	B2	B2	B2	B2	B2
English	B2	B2	B2	B2	B2
Spanish	C2	C2	C2	C2	C2







Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 Name of the project: Publicación y uso de datos abiertos enlazados del Instituto Nacional de Estadística (INE-LinkedStats) Entity where project took place: Universidad Type of entity: University Politécnica de Madrid City of entity: Madrid, Community of Madrid, Spain Funding entity or bodies: Instituto Nacional de Estadística Type of entity: Organismo Público City funding entity: Spain Code according to the funding entity: Exp. 2021N1013002 Start-End date: 12/05/2023 - 11/05/2026 2 Name of the project: Sistema de Información Geográfica interoperable y semánticamente enriquecido para el análisis y la gestión del TRANSporte público (SIGTRANS-UPM) Entity where project took place: Universidad Type of entity: University Politécnica de Madrid City of entity: Madrid, Community of Madrid, Spain Funding entity or bodies: Ministerio de Ciencia e Innovación Type of entity: Institución Name of the programme: Retos Prueba de Concepto Code according to the funding entity: PDC2021-120917-C22 Start-End date: 01/12/2021 - 31/12/2023 Participating entity/entities: Universidad Politécnica de Madrid; Universidad de La Coruña 3 Name of the project: RELIANCE – REsearch Llfecycle mAnagemeNt for Earth Science Communities and CopErnicus users in EOSC Entity where project took place: Universidad Type of entity: University Politécnica de Madrid City of entity: Madrid, Community of Madrid, Spain Funding entity or bodies: Unión Europea Type of entity: Institución Name of the programme: H2020-101017501 Start-End date: 01/01/2021 - 30/06/2023

Participating entity/entities: ALPHA; Instituto de Ciencia y Tecnología de Polímeros; Universidad de Sevilla; INGV; MEEO; PSNC; T2; UiO; Universidad Politécnica de Madrid

4 Name of the project: Espacio de datos y sistemas inteligentes de ayuda a la decisión para pandemias, con apoyo a personal sanitario, epidemiológico, investigador, autoridades sanitarias y pacientes (MadridDataSpace4Pandemics-CM)

Entity where project took place: Universidad Politécnica de Madrid

Type of entity: University



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C V N CURRÍCULUM VÍTAE NORMALIZADO

> City of entity: Madrid, Community of Madrid, Spain Funding entity or bodies: Consejería de Educación, Universidades, Ciencia y Portavocía Dirección General de Investigación e Innovación Técnica Comunidad de Madrid Type of entity: Institución Name of the programme: REACT-EU Start-End date: 01/01/2020 - 31/12/2022 Participating entity/entities: Universidad Politécnica de Madrid 5 Name of the project: AUDABLOK Entity where project took place: Universidad de Type of entity: University Deusto City of entity: Bilbao, Basque Country, Spain Name principal investigator (PI, Co-PI...): Mikel Emaldi Manrique; Koldo Zabaleta Fernández; Diego López de Ipiña González de Artaza Funding entity or bodies: Gobierno Vasco Type of entity: Institución Name of the programme: HAZITEK Code according to the funding entity: ZL-2019/00203

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Robiert Sepúlveda Torres; Alba Bonet Jover; Isam Diab Lozano; Ibai Guillén Pacho; Isabel Cabrera de Castro; Carlos Badenes Olmedo; Estela Saquete Boro; M. Teresa Martín Valdivia; Patricio Martínez Barco; L. Alfonso Ureña López. Overview of FLARES at IberLEF 2024: Fine-grained Language-based Reliability Detection in Spanish News. Procesamiento del Lenguaje Natural. 73, pp. 369 - 379. Sociedad Española para el Procesamiento del Lenguaje Natural, 01/09/2024.

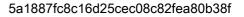
Type of production: Scientific paper Corresponding author: No Format: Journal

Ibai Guillén Pacho; Carlos Badenes Olmedo; Óscar Corcho García. Dynamic topic modelling for exploring the scientific literature on coronavirus: an unsupervised labelling technique. International Journal of Data Science and Analytics. Springer Nature, 13/08/2024.
 DOI: 10.1007/s41060-024-00610-0

Type of production: Scientific paper Corresponding author: Yes Format: Journal









Works submitted to national or international conferences

- Title of the work: The Vulnerable Identities Recognition Corpus (VIRC) for Hate Speech Analysis
 Name of the conference: Tenth Italian Conference on Computational Linguistics
 Corresponding author: Yes
 City of event: Pisa, Toscana, Italy
 Date of event: 04/12/2024
 End date: 06/12/2024
 Organising entity: Italian Association of Computational Linguistics
 Ibai Guillén Pacho; Arianna Longo; Marco Antonio Stranisci; Viviana Patti; Carlos Badenes Olmedo.
- 2 Title of the work: A Recommender System that safeguards the user privacy through Federated Learning Name of the conference: 6th International Conference on Smart and Sustainable Technologies (SpliTech) Corresponding author: Yes Date of event: 08/09/2021 End date: 11/09/2021 Organising entity: International Conference on Smart and Sustainable Technologies Ibai Guillén; Rubén Sánchez-Corcuera; Diego Casado-Mansilla. pp. 01 - 05.
- Title of the work: Blockchain-mediated Collaboration of Citizens in Open Government Processes
 Name of the conference: 5th International Conference on Smart and Sustainable Technologies (SpliTech)
 Corresponding author: No
 Date of event: 23/09/2020
 End date: 26/09/2020
 Organising entity: International Conference on Smart and Sustainable Technologies
 Mikel Emaldi; Koldo Zabaleta; Ibai Guillén; Diego López-de-Ipiña. pp. 1 6.

Works submitted to national or international seminars, workshops and/or courses

 Title of the work: PODIO: A Political Discourse Ontology
 Name of the event: International Conference on Knowledge Engineering and Knowledge Management (EKAW 2024) Workshops, Tutorials, Posters and Demos
 Corresponding author: Yes
 City of event: Ámsterdam, Noord-Holland, Holland
 Date of event: 26/11/2024
 End date: 28/11/2024
 Organising entity: International Conference on Knowledge Engineering and Knowledge Management Ibai Guillén Pacho; Ana Iglesias Molina; Carlos Badenes Olmedo; Oscar Corcho García.

Title of the work: Leveraging Temporal Analysis to Predict the Impact of Political Messages on Social Media in Spanish
 Name of the event: Doctoral Symposium on Natural Language Processing 2024
 Corresponding author: Yes
 City of event: Valladolid, Castile and León, Spain
 Date of event: 26/09/2024
 Organising entity: Sociedad Española para el Procesamiento del Lenguaje Natural Ibai Guillén Pacho.







3 Title of the work: PODIO: POlitical Discourse Ontology Name of the event: COMETE (COMputer SciEnce DeparTmEnt) PhD Workshop 2024 Corresponding author: Yes City of event: Torino, Piemonte, Italy Date of event: 05/04/2024 End date: 05/04/2024 Organising entity: Computer Science department, of Type of entity: University Department the University of Turin Ibai Guillén Pacho; Carlos Badenes Olmedo; Ana Iglesias Molina; Oscar Corcho García. **4 Title of the work:** Detecting Causes of Discourse Evolution Name of the event: Teaching and Learning Language Technologies (text and speech) in the light of Generative Artificial Intelligence Corresponding author: Yes City of event: Madrid, Community of Madrid, Spain Date of event: 07/03/2024 End date: 08/03/2024 Organising entity: EELISA InnoCORE Ibai Guillén Pacho. **5 Title of the work:** Agent-guided Knowledge Engineering Name of the event: Knowledge Prompting Hackathon Corresponding author: Yes

City of event: Londres, Inner London, United Kingdom Date of event: 07/08/2023 End date: 10/08/2023 Organising entity: King's College Ibai Guillén Pacho; Carlos Golvano Díaz; Ryan Brate; Yannick Brunink.

6 Title of the work: Evolution of political discourse in Madrid: a case study in the transport domain Name of the event: 2nd Cardiff Natural Language Processing Workshop Corresponding author: Yes
 City of event: Cardiff, East Wales, United Kingdom Date of event: 26/06/2023
 End date: 27/06/2023
 Organising entity: Cardiff NLP Group Type of entity: University Department Ibai Guillén Pacho; Carlos Badenes Olmedo; Oscar Corcho García.

7 Title of the work: Qichwabase
 Name of the event: Summer Datathon on Linguistic Linked Open Data 2022
 City of event: Cercedilla, Community of Madrid, Spain
 Date of event: 30/05/2022
 End date: 03/06/2022
 Organising entity: COST (European Cooperation in Type of entity: Associations and Groups Science and Technology)







Other achievements

Stays in public or private R&D centres

- 1
 Entity: Università Degli Studi Di Torino
 Type of entity: University

 Faculty, institute or centre: Dipartimento di Informatica

 City of entity: Torino, Piemonte, Italy

 Start-End date: 01/04/2024 07/07/2024

 Duration: 3 months 7 days

 Goals of the stay: Doctorate

 Type of stay: Investigación
- Entity: Università Degli Studi Di Torino
 Type of entity: University
 Faculty, institute or centre: Dipartimento di Informatica
 City of entity: Torino, Piemonte, Italy
 Start-End date: 20/11/2023 22/11/2023
 Goals of the stay: Guest
 Narrative explanation: Formalising political speech with ontologies, an approach to exploit the discourse of different parties in different media over time.
 Type of stay: Investigación

Obtained grants and scholarships

Name of the grant: Ayuda para la contratación de personal investigador predoctoral en formación City awarding entity: Community of Madrid, Spain Aims: Pre-doctoral Awarding entity: Consejería de Educación, Ciencia y Universidades Conferral date: 01/01/2024 Duration: 4 years End date: 31/12/2027 Entity where activity was carried out: Universidad Politécnica de Madrid Faculty, institute or centre: Escuela Técnica Superior de Ingenieros Informáticos



