Mikel Egaña Aranguren, Ph.D.

Associate Professor

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School of Engineering
University of Basque Country (UPV/EHU)
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48013 Bilbao, Spain

Education

2009 Ph.D. Computer Science, University of Manchester, UK

2005 M.Sc. Bioinformatics, University of Manchester, UK

2003 B.Sc. Biology, University of Basque Country, Spain

2002 **Invited student** Evolutionary Ecology at Canterbury Christ Church University College, UK

2002 **Erasmus student** Environmental Biology at Canterbury Christ Church University College, UK

Employment

2024/07/01 - Present	Associate Professor, Dept. of Computer Languages and Systems,
	UPV/EHU
2020/09/01 - 2024/06/30	Assistant Professor, Dept. of Computer Languages and Systems,
	UPV/EHU
2018/12/02 - 2020/08/31	Linked Data Consultant Eccenca GmbH
	Development of Linked Data solutions for the Enterprise,
	including project management
2018/10/01 - 2018/12/02	Bioinformatics technician Biocruces Bizkaia
	Data infrastructure development, Bioinformatics analyses
2016/01/14 - 2018/09/30	Analyst, Torres Quevedo fellow Eurohelp Consulting
	Design and development of Linked Open Data solutions
2015/04/27 - 2016/01/14	Analyst Eurohelp Consulting
	Design and development of Linked Open Data solutions

Research positions

2014/04/01 - 2015/03/31 Post-doc researcher (80% FTE) Genomic Resources Group, UPV/EHU
Metagenomics and Life Sciences Semantic Web

2011/02/14 - 2014/02/14 Post-doc researcher, Marie Curie Cofund fellow
Ontology Engineering Group (Computer Science);
Biological Informatics Group (CBGP), UPM, Spain
Ontology Engineering and Life Sciences Semantic Web

Researcher OGO project, UM, Spain
Orthologous Genes Ontology

2006/05/01 - 2006/10/1 Pre-doc researcher, Marie Curie EST fellow
Computational Biology group, VIB, Belgium
Cell Cycle Ontology and Ontology Design Patterns

Freelance positions

2018/10/15 - 2018/12/02 Ontology Engineering. Cognizone, Belgium
2018/05/01 - 2018/07/31 Public tender technical writer. University of Murcia
Project Hercules: Federated Linked Open Data for universities

Research visits

2005/09/01 - 2005/10/01 European Bioinformatics Institute (EBI), funded by the Network of Excellence on Semantic Interoperability and Data Mining in Biomedicine (EU)

Personal funding

2018-2020 (2 years)

2016-2018 (3 years)

2011-2014 (3 years)

2006 (5 months)

2005 - 2008 (3 years)

Declined Bioinformatics Technician. Instituto de Salud Carlos III. CA18/00021

Torres Quevedo (Spain). 35% of salary at Eurohelp Consulting. PTQ-14-07198

Marie Curie Cofund (EU). UNITE 246565

Marie Curie EST (EU). MEST-CT-2004-414632

EPSRC (UK): Ph.D. fees

University of Manchester (UK): Ph.D. maintenance allowance

Erasmus (EU)

Participation in projects

Research

2024 EHUkhi: una plataforma para el desarrollo del potencial fotovoltaico de la UPV/EHU (Campus Bizia Lab). 2.225,00 EUR. 2021 - 2025 SUPPORT4LHS (Process Mining and Knowledge Representation technologies to Support the Learning Health System). PID2020-113723RB-C22. Agencia Estatal de Investigación, "Proyectos I+D+i 2020" - Modalidades "Retos Investigación" y "Generación de Conocimiento" (Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020). 136.972,00 EUR. 01/09/2021 - 31/08/2024 2010 - 2015 Grupo de Investigación del Sistema Universitario Vasco. "Análisis genómicos de la variación del ADN" (GIC10/58-IT558-10). Basque government 2012 - 2014 Genes And Proteins for AutoImmunity Diagnostics GAPAID. FP7-SME - Specific Programme "Capacities": Research for the benefit of SMEs	2024 - 2027	BRAINMAP-REHAB (Biocruces)
2021 - 2025 SUPPORT4LHS (Process Mining and Knowledge Representation technologies to Support the Learning Health System). PID2020-113723RB-C22. Agencia Estatal de Investigación, "Proyectos I+D+i 2020" - Modalidades "Retos Investigación" y "Generación de Conocimiento" (Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020). 136.972,00 EUR. 01/09/2021 - 31/08/2024 2010 - 2015 Grupo de Investigación del Sistema Universitario Vasco. "Análisis genómicos de la variación del ADN" (GIC10/58-IT558-10). Basque government 2012 - 2014 Genes And Proteins for AutoImmunity Diagnostics GAPAID.	2024	EHUkhi: una plataforma para el desarrollo del potencial fotovoltaico de la UPV/EHU
Support the Learning Health System). PID2020-113723RB-C22. Agencia Estatal de Investigación, "Proyectos I+D+i 2020" - Modalidades "Retos Investigación" y "Generación de Conocimiento" (Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020). 136.972,00 EUR. 01/09/2021 - 31/08/2024 2010 - 2015 Grupo de Investigación del Sistema Universitario Vasco. "Análisis genómicos de la variación del ADN" (GIC10/58-IT558-10). Basque government 2012 - 2014 Genes And Proteins for AutoImmunity Diagnostics GAPAID.		(Campus Bizia Lab). 2.225,00 EUR.
Agencia Estatal de Investigación, "Proyectos I+D+i 2020" - Modalidades "Retos Investigación" y "Generación de Conocimiento" (Plan Estatal de Investigación Científica y Técnica y de Innovación 2017-2020). 136.972,00 EUR. 01/09/2021 - 31/08/2024 2010 - 2015 Grupo de Investigación del Sistema Universitario Vasco. "Análisis genómicos de la variación del ADN" (GIC10/58-IT558-10). Basque government 2012 - 2014 Genes And Proteins for AutoImmunity Diagnostics GAPAID.	2021 - 2025	SUPPORT4LHS (Process Mining and Knowledge Representation technologies to
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FP7-SME - Specific Programme "Capacities": Research for the benefit of SMEs	2012 - 2014	Genes And Proteins for AutoImmunity Diagnostics GAPAID.
		FP7-SME - Specific Programme "Capacities": Research for the benefit of SMEs
(7PM-CAPACITIES-SMEs12/01)		(7PM-CAPACITIES-SMEs12/01)
2007 - 2010 Plataforma web para gestión de conocimientos guiada por ontologías en	2007 - 2010	Plataforma web para gestión de conocimientos guiada por ontologías en
genómica funcional. Proyecto Industrial- Regional Murcia (BIO-TEC $06/01\text{-}0005$)		genómica funcional. Proyecto Industrial- Regional Murcia (BIO-TEC 06/01-0005)

Transfer

2024	Knowledge Graphs. Universidad de Murcia (UM), SIEMENS (8.000,00 EUR). Knowledge transfer project (PT10885) managed by
	Euskoiker foundation.
2023 - 2024	Methods for automatic generation of Knowledge Graph. Universidad de Murcia (UM),
	BASF (8.000,00 EUR). Knowledge transfer project (TR42135) managed by
	Euskoiker foundation.
2021 - 2022	Producción de Datos Enlazados para Open Data Euskadi. EJIE (Sociedad Informática
	del Gobierno Vasco), 2105015. (9.000,00 EUR) Knowledge transfer project (TR41652)
	managed by Euskoiker foundation.

Development

2017 - 2018	SOLDAGE (Semantic Open Linked DAta GEnerator). HAZITEK, Gobierno Vasco.
	FAIR data generator (150.000 EUR).
2016 - 2020	REPLICATE. Renaissance of Places with Innovative Citizenship And
	TEchnology (Project 691735), EU. Linked Open Data in Smart Cities
	(http://replicate-project.eu/).
	(Consortium: 24.965.263,09; Eurohelp: 328.580,00 EUR).
2015 - 2017	Linking Open Domains, Plataforma para la generación de datos enlazados
	(LODGen) (TSI-100105-2015-0012). Ministerio de Industria, Energia y Turismo (Spain),
	Acción Estratégica Economía y Sociedad Digital (AEESD) 1/2015.
	Linked Open Data pipeline (40.182,54 EUR).
2015 - 2016	Enlazando Gipuzkoa con el Mundo (ENGIMU). Gipuzkoako Foru Aldundia,
	Gipuzkoa IKT: Innovación digital Empresas (Spain).
	Linked Open Data pipeline (40.000 EUR).

Public tender

2018	Servicios Directorio.
	EJIE (Sociedad Informática del Gobierno Vasco). (70.000 EUR).
2016 - 2017	Servicios Open Linked Data. EJIE (Sociedad Informática del Gobierno Vasco).
	Linked Data implementation of Open Data Euskadi (90.000 EUR).

Committees and reviewer work

2024	Reviewer for Journal of Biomedical Semantics (JBS)
2024	Reviewer for Bioinformatics (https://publons.com/wos-
	op/review/author/73gSS0Ol/)
2023	Program Committee Member at Semantic Web Solutions for Large-Scale
	Biomedical Data Analytics (SeWeBMeDA 2023)
2022	Program Committee Member at Semantic Web Solutions for Large-Scale
	Biomedical Data Analytics (SeWeBMeDA 2022)
2020	Program Committee Member at Semantic Web Solutions for Large-Scale
	Biomedical Data Analytics (SeWeBMeDA 2020)
2019	Program Committee Member at Semantic Web Solutions for Large-Scale
	Biomedical Data Analytics (SeWeBMeDA 2019)
2018	Program Committee Member at Semantic Web Solutions for Large-Scale
	Biomedical Data Analytics (SeWeBMeDA 2018)
2017	Program Committee Member at Semantic Web Solutions for Large-Scale
	Biomedical Data Analytics (SeWeBMeDA 2017)
2017	Chapter review "Integrating Biological Data using Semantic Web Technology"
	in "Evolutionary Genomics. Computational and statistical methods", 3rd edition,
	Springer
2015	Program Committee Member at Linked Data workshop (CAEPIA 2015)
2015	Reviewer for BMC Medical Informatics and Decision Making

2013	Special issue editor for Semantic Web Journal (SWJ): Special issue on Linked
	Data for Health Care and the Life Sciences
2013	Reviewer for PeerJ
2013	Reviewer for Data and Knowledge Engineering (DKE)
2012	Program Committee Member at Managing Interoperability and compleXity in
	Health Systems. In conjunction with the ACM International Conference on Infor-
	mation and Knowledge Management
2012	Program Committee Member at Joint Workshop on Semantic Technologies
	Applied to Biomedical Informatics and Individualized Medicine (SATBI + SWIM
	2012). In conjunction with International Semantic Web Conference (ISWC)
2012	Reviewer for BMC Bioinformatics
2012	Reviewer for Journal of Biomedical Informatics (JBI)
2012	Reviewer for Computational and Mathematical Methods in Medicine (CMMM)
2012	Reviewer for Journal of Medical Systems (JOMS)
2012	Reviewer for Journal of Biomedical Semantics (JBS)
2011	Program Committee Member at Managing Interoperability and compleXity in
	Health Systems. In conjunction with the ACM International Conference on Infor-
	mation and Knowledge Management
2011	Program Committee Member at Knowledge Capture (K-CAP)
2011	Program Committee Member at Semantic Applied Technologies on Biomedical
	Informatics (SATBI 2011). In conjunction with the ACM International Conference
	on Bioinformatics and Computational Biology
2011	Reviewer for Semantic Web Journal (SWJ)
2011	Reviewer for Journal of Research and Practice in Information Technology (JRPIT)
2008	Program Committee Member at ONTORACT

Invited Talks

2016	Los Datos Enlazados y la Web Semántica. Tikitalka, VE Interactive, Spain
2014	Building reasonable biomedical ontologies for a Life Sciences Semantic Web. 3S
	(Systems, Synthetic, and Semantic) Biology summer school. CIBIO (Centre for
	Integrative Biology), University of Trento, Italy
2011	Linked Data for Functional Genomics. NTNU, Trondheim, Norway
2010	Aplicación de la Web Semántica en Biología Molecular. Universidad de Deusto,
	Facultad de Ingeniería, Spain
2008	Aplicación de la Web Semántica en Bioinformática. UM, Facultad de Informática,
	Spain
2004	Métodos y resultados actuales en Bioinformática: know-how y know-what de las
	redes tecnocientíficas en Bioinformática. EHU, Facultad de Filosofía, Spain

Teaching Experience

2024	Administration of Data Bases (6 ECTS). Degree in Computer Engineering of Man-
	agement and Information Systems, UPV/EHU. Spanish and Basque
2024	FAIR data (0.5 ECTS). MSc Bioinformatics, UM. Spanish
2024	Information Security (6 ECTS). Degree in Computer Engineering of Management
	and Information Systems, UPV/EHU. Spanish and Basque
2023	Administration of Data Bases (6 ECTS). Degree in Computer Engineering of Man-
	agement and Information Systems, UPV/EHU. Spanish and Basque
2023	FAIR data (0.5 ECTS). MSc Bioinformatics, UM. Spanish
2023	Information Security (6 ECTS). Degree in Computer Engineering of Management
	and Information Systems, UPV/EHU. Spanish and Basque
2022	FAIR data (0.5 ECTS). MSc Bioinformatics, UM. Spanish
2022	Information Security (6 ECTS). Degree in Computer Engineering of Management
	and Information Systems, UPV/EHU. Spanish and Basque
2022	Analysis and Design of Information Systems (6 ECTS). Degree in Computer Engi-
	neering of Management and Information Systems, UPV/EHU. Spanish
2021	FAIR data (0.5 ECTS). MSc Bioinformatics, UM. Spanish
2021	Information Security (6 ECTS). Degree in Computer Engineering of Management
	and Information Systems, UPV/EHU. Spanish and Basque
2021	Analysis and Design of Information Systems (6 ECTS). Degree in Computer Engi-
	neering of Management and Information Systems, UPV/EHU. Spanish
2021	Project Management (3 ECTS). Degree in Computer Engineering of Management
	and Information Systems, UPV/EHU. Spanish and Basque
2020	FAIR data (0.5 ECTS). MSc Bioinformatics, UM. Spanish
2020	Information Security (6 ECTS). Degree in Computer Engineering of Management
	and Information Systems, UPV/EHU. Spanish
2020	Analysis and Design of Information Systems (6 ECTS). Degree in Computer Engi-
201-	neering of Management and Information Systems, UPV/EHU. Spanish
2017	Life Sciences Semantic Web (1 ECTS). MSc Bioinformatics, UM. Spanish
2016	Life Sciences Semantic Web (1 ECTS). MSc Bioinformatics, UM. Spanish
2016	Linked Open Data tutorial. EJIE. Spanish
2015	Linked Open Data tutorial. IZFE (Informatika Zerbitzuen Foru Elkartea,
0015	Gipuzkoa). Spanish
2015	Life Sciences Semantic Web (1 ECTS). MSc Bioinformatics, UM. Spanish
2014	Semantic biology tutorial: Use of Semantic Web resources for knowledge discovery.
	3S (Systems, Synthetic, and Semantic) Biology summer school. CIBIO (Centre for
2014	Integrative Biology), University of Trento, Italy. English
2014	Galaxy tutorial. Erasmus mundus MSc in Marine Environment and resources, UPV-EHU. English
2014	Life Sciences Semantic Web (1 ECTS). MSc Bioinformatics, UM. Spanish
2014	Introductory talk on bioinformatics for high school students visiting the CBGP.
2010	Spanish
2013	
2013	Galaxy tutorials at CBGP. English and spanish Life Sciences Linked Data (1 ECTS). MSc Bioinformatics, UM. Spanish
2013	OWL, as part of ATHENS course (UPM). English
2012	OWL, as part of ATHENS course (UPM). English

2011	Populous tutorial at SWAT4LS (London, UK), English
2011	OWL, as part of ATHENS course (UPM). English
2011	Web Ontology Language (OWL), as part of Artificial Intelligence MSc (UPM). En-
	glish
2011	OWL/Description Logics, as part of the Artificial Intelligence course (UPM). Span-
	ish
2005-	OWL tutorials for biologists (University of Manchester, UK). English
2008	

Ph.D. panels

2016	Alejandro Rodríguez Iglesias, "FAIR approaches applied to unraveling plant-
	pathogen interactions data and RNA processing evolution", UPM, Spain
2013	Meifania Monica Chen, "Lipoprotein Ontology: A Formal Representation of
	Lipoproteins", Curtin University. Australia
2012	Jose Antonio Miñarro-Giménez, "Entorno para la gestión semántica de información
	biomédica en investigación traslacional". UM, Spain
2011	Doris Mejía Ávila, "Estrategia de interoperabilidad semántica en el contexto de
	integración de conocimiento geográfico y ambiental. Caso de aplicación: Biodiversity
	Ontology". UPM, Spain

Student supervision

2024	Unai Elorriaga. "Research and evaluation of Openpilot through adversarial exam-
	ples". Final Degree Project (TFG/GrAL), Bachelor's Degree in Computer Engi-
	neering in Management and Information Systems, UPV/EHU, Spain
2024	Unai Castro. "App para la gestión de deportes entre amigos incluyendo es-
	tadísticas". Final Degree Project (TFG/GrAL), Bachelor's Degree in Computer
	Engineering in Management and Information Systems, UPV/EHU, Spain
2024	Alberto Aróstegui. "Sistema ChatGPT-RAG para una mejor interacción con Jira".
	Final Degree Project (TFG/GrAL), Bachelor's Degree in Computer Engineering in
	Management and Information Systems, UPV/EHU, Spain
2024	Alvaro Diez-Andino. "Cifrado asimétrico: Desde la perspectiva clásica a la cuántica
	a través de RSA". Final Degree Project (TFG/GrAL), Bachelor's Degree in Com-
	puter Engineering in Management and Information Systems, UPV/EHU, Spain
2024	Mikel Perez. "Order superfast: App para la agilización de pedidos en restaurantes".
	Final Degree Project (TFG/GrAL), Bachelor's Degree in Computer Engineering in
	Management and Information Systems, UPV/EHU, Spain
2024	Gorka del Río. "Aplicación móvil de intercambio de parejas con conocimiento cero".
	Final Degree Project (TFG/GrAL), Bachelor's Degree in Computer Engineering in
	Management and Information Systems, UPV/EHU, Spain

2024	Igor Isasi. "Aplicación Web de exploración de datos en mapas basada en APIs REST
	de Open Data Euskadi". Final Degree Project (TFG/GrAL), Bachelor's Degree in
	Computer Engineering in Management and Information Systems, UPV/EHU, Spain
2024	Paul Charrier. "Party Beast" Final Degree Project (TFG/GrAL), Erasmus+ (Ecole
	d'Ingenieurs ESME Sudria), UPV/EHU, Spain
2023	Joel García. "Aplicación de ChatGPT para la mejora de procesos de desarrollo en
	un entorno empresarial". Final Degree Project (TFG/GrAL), Bachelor's Degree in
	Computer Engineering in Management and Information Systems, UPV/EHU, Spain
2023	Ena Verhorst. "Migración de una aplicación de gestión a una nube comercial usando
	integración continua". Final Degree Project (TFG/GrAL), Bachelor's Degree in
	Computer Engineering in Management and Information Systems, UPV/EHU, Spain
2023	Aitor San Jose. "Desarrollo de una aplicación de soporte a revisiones médicas us-
	ando Odoo". Final Degree Project (TFG/GrAL), Bachelor's Degree in Computer
	Engineering in Management and Information Systems, UPV/EHU, Spain
2023	Jon Garcia. "'Técnicas para la gestión de secretos en entornos cloud'. Final Degree
	Project (TFG/GrAL), Bachelor's Degree in Computer Engineering in Management
	and Information Systems, UPV/EHU, Spain
2023	Joseba Rodriguez. "Aplicación web basada en Nmap para monitorizar seguridad
	de servicios en una red corporativa". Final Degree Project (TFG/GrAL), Bach-
	elor's Degree in Computer Engineering in Management and Information Systems,
	UPV/EHU, Spain
2022	Maialen Ruiz. "Hezkuntzako ordezkapenak aukeratzeko mapa bidezko aplikazioa".
	Final Degree Project (TFG/GrAL), Bachelor's Degree in Computer Engineering in
	Management and Information Systems, UPV/EHU, Spain
2022	Jon Ander Asua. "Grafo batean balizko ustelkeriaren datuak irudikatzeko frame-
	work generikoa". Final Degree Project (TFG/GrAL), Bachelor's Degree in Com-
	puter Engineering in Management and Information Systems, UPV/EHU, Spain
2015	Salvador Alonso Martínez. "Imagen Docker para pipelines de Metagenómica",
	Bioinformatics MSc project (TFM), UM, Spain

Certifications and courses

2023	Tus estudiantes usan ChatGPT y lo sabes. 2 hours course by Grupo 9 de Universi-
	dades $(G-9)$
2023	Neo4J Certified Professional. Issued by Neo4J
2023	Semantic Integration Training. Issued by Semantic Web Company
2023	Knowledge Engineering Training. Issued by Semantic Web Company
2019	Docker Essentials: A Developer Introduction. Issued by Cognitive Class
2017	Predictive modelling. 20 hours course at Tecnalia
2011	Profesor Ayudante Doctor. Issued by ANECA
2003	Microsoft Visual Basic. 25 hours course at UPV/EHU
2003	Working risks prevention. 30h course at Bionatur Biologists Association
	(UPV/EHU)
2003	UNIX administration. 24 hours course at UPV/EHU

2002	ISO 9001:2000. 30h course at Bionatur Biologists Association (UPV/EHU)
2002	XML. 16 hours course at University of Deusto
1998	Environmental sciences (Ekoeskola). 65 hours course at Erreka Ecologist Platform

Technical expertise

Semantic Web stack: RDF (JSON-LD, TTL), SPARQL, OWL, SHACL, RML

Ontologies: SKOS, DCAT, VoID, Data Cube, WGS84, Open Biomedical Ontologies, Schema,

European Legislation Identifier, and more

Ontology editors: Protégé

Databases: GraphDB, Stardog, Virtuoso, Blazegraph, RDFox, Neo4j, MongoDB, MariaDB

Linked/Open/FAIR Data: Trifid, Pool Party (Semantic Web Company), Corporate Memory

(Eccenca GmbH), Morph-KGC, YARRRML, FAIR Data Point

Libraries: OWL API, RDFLib, Jena, RDF4J

Programming: Java, Python, Bash

Version control: Git (GitHub, GitLab)

Open Data: CKAN, Open Refine

Project management: Jira, Confluence, GitHub projects, Kanban

Cloud computing: Google Cloud, Azure

DevOps: GitHub actions, Docker, Docker compose, Ansible, Bamboo, Jenkins, Travis

Membership

Sociedad Española de Inteligencia Artificial en Biomedicina (BIOMED): https://iabiomed.org/ Sociedad Española de Bioinformática y Biología Computacional (SEBiBC): https://sebibc.es/

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