

Mikel Egaña Aranguren, Ph.D.

Assistant Profesor

Office P3I16

Department of Computer Languages and Systems

School of Engineering

University of Basque Country (UPV/EHU)

48013 Bilbao, Spain

@: mikel.egana@ehu.eus

www: <https://mikel-egana-aranguren.github.io>

Phone: +34 94 601 4324

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

2020/09/01 - Present **Assistant Profesor**, 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
- 2010/12/01 - 2011/02/01 **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) **Declined** Bioinformatics Technician. Instituto de Salud Carlos III. CA18/00021
- 2016-2018 (3 years) Torres Quevedo (Spain). 35% of salary at Eurohelp Consulting. PTQ-14-07198
- 2011-2014 (3 years) Marie Curie Cofund (EU). UNITE 246565
- 2006 (5 months) Marie Curie EST (EU). MEST-CT-2004-414632
- 2005 (One payment) EPSRC (UK): Ph.D. fees
- 2005 - 2008 (3 years) University of Manchester (UK): Ph.D. maintenance allowance
- 2002 (5 months) Erasmus (EU)

Participation in projects

Research

- 2021 - 2024 SUPPORT4LS (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). Basque government
- 2012 - 2014 Genes And Proteins for AutoImmunity Diagnostics GAPAIID. FP7-SME - Specific Programme “Capacities”: Research for the benefit of SMEs (Grant agreement ID: 314971)

Technology transfer

- 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, Energía 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 Linked Open Data. 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).

Publications

Peer review journals

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|------|--|
| 2015 | Aranguren, M. E. and Wilkinson, M. D. (2015). Enhanced reproducibility of SADI Web service workflows with Galaxy and Docker. <i>GigaScience</i> , 4(59) |
| 2015 | Pawluczyk, M., Weiss, J., Links, M. G., Aranguren, M. E., Wilkinson, M. D., and Egea-Cortines, M. (2015). Quantitative evaluation of bias in PCR amplification and Next Generation Sequencing derived from metabarcoding samples. <i>Analytical and Bioanalytical Chemistry</i> , 407(7):1841–1848 |
| 2014 | González, A. R., Callahan, A., Toledo, J. C., García, A., Aranguren, M. E., Dumontier, M., and Wilkinson, M. D. (2014a). Automatically exposing OpenLifeData via SADI semantic Web Services. <i>Journal of Biomedical Semantics</i> , 5(1):46+ |
| 2014 | Aranguren, M. E., González, A. R., and Wilkinson, M. D. (2014). Executing SADI services in Galaxy. <i>Journal of Biomedical Semantics</i> , 5(1):42+ |
| 2014 | José Antonio Miñarro Giménez, Mikel Egaña Aranguren, Boris Villazón Terrazas, and Jesualdo Tomás Fernández Breis (2014). Translational research combining orthologous genes and human diseases with the OGOLOD dataset. <i>Semantic Web Journal</i> , 5(2):145–149 |
| 2014 | Mikel Egaña Aranguren, Jesualdo Tomás Fernández Breis, and Michel Dumontier (2014). Special issue on Linked Data for Health Care and the Life Sciences. <i>Semantic Web Journal</i> , 5(2):99–100 |
| 2013 | Duque-Ramos, A., Fernández-Breis, J. T., Iniesta, M., Dumontier, M., Egaña Aranguren, M., Schulz, S., Aussenac-Gilles, N., and Stevens, R. (2013). Evaluation of the OQuaRE framework for ontology quality. <i>Expert Systems with Applications</i> , 40(7):2696–2703 |
| 2013 | Egaña Aranguren, M., Fernández-Breis, J. T., Antezana, E., Mungall, C., Rodríguez González, A., and Wilkinson, M. D. (2013). OPPL-Galaxy, a Galaxy tool for enhancing ontology exploitation as part of bioinformatics workflows. <i>Journal of biomedical semantics</i> , 4(1):2 |
| 2012 | Minarro-Gimenez, J., Egana-Aranguren, M., Villazon-Terrazas, B., and Fernandez-Breis, J. (2012). Publishing Orthology and Diseases Information in the Linked Open Data Cloud. <i>Current Bioinformatics</i> , 7(3):255–266 |
| 2011 | Mironov, V., Antezana, E., Egaña, M., Blondé, W., De Baets, B., Kuiper, M., and Stevens, R. (2011). Flexibility and utility of the Cell Cycle Ontology. <i>Applied Ontology</i> , 6(3):247–261 |

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| 2011 | Miñarro-Gimenez, J., Aranguren, M., Béjar, R., Fernández-Breis, J., and Madrid, M. (2011). Semantic integration of information about orthologs and diseases: The OGO system. <i>Journal of biomedical informatics</i> , 44:1020–1031 |
| 2009 | Antezana, E., Egaña, M., Blondé, W., Illarramendi, A., Bilbao, I., De Baets, B., Stevens, R., Mironov, V., and Kuiper, M. (2009b). The Cell Cycle Ontology: an application ontology for the representation and integrated analysis of the cell cycle process. <i>Genome Biol</i> , 10(5):R58 |
| 2009 | Antezana, E., Blondé, W., Egaña, M., Rutherford, A., Stevens, R., De Baets, B., Mironov, V., and Kuiper, M. (2009a). BioGateway: a semantic systems biology tool for the life sciences. <i>BMC bioinformatics</i> , 10(Suppl 10):S11 |
| 2008 | Egaña Aranguren, M., Wroe, C., Goble, C., and Stevens, R. (2008). In situ migration of handcrafted ontologies to reason-able forms. <i>Data & Knowledge Engineering</i> , 66(1):147–162 |
| 2008 | Aranguren, M., Antezana, E., Kuiper, M., and Stevens, R. (2008a). Ontology Design Patterns for bio-ontologies: a case study on the Cell Cycle Ontology. <i>BMC bioinformatics</i> , 9(Suppl 5):S1 |
| 2008 | Antezana, E., Egaña, M., De Baets, B., Kuiper, M., and Mironov, V. (2008b). ONTO-PERL: an API for supporting the development and analysis of bio-ontologies. <i>Bioinformatics</i> , 24(6):885 |
| 2007 | Stevens, R., Egaña Aranguren, M., Wolstencroft, K., Sattler, U., Drummond, N., Horridge, M., and Rector, A. (2007). Using OWL to model biological knowledge. <i>International Journal of Human-Computer Studies</i> , 65(7):583–594 |
| 2007 | Aranguren, M., Bechhofer, S., Lord, P., Sattler, U., and Stevens, R. (2007). Understanding and using the meaning of statements in a bio-ontology: recasting the Gene Ontology in OWL. <i>BMC bioinformatics</i> , 8(1):57 |

Book Chapters

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| 2010 | Aranguren, M., Stevens, R., Antezana, E., Fernández-Breis, J.T., Kuiper, M., and Mironov, V. (2010). Technologies and Best Practices for Building Bio-Ontologies. In <i>Knowledge-Based Bioinformatics</i> , volume Gil Alterovitz and Marco Ramoni (Eds.), pages 67–86. Wiley Online Library |
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Books

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| 2010 | Aranguren, M. (2010). <i>Role and application of ODPs in bio-ontologies</i> . Lambert Academic Publishing |
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Conference Proceedings

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| 2014 | González, A. R., Romero, M. M., Aranguren, M. E., and Wilkinson, M. D. (2014b). Nanopublishing clinical diagnoses: tracking diagnostic knowledge base content and utilization. In <i>27th International Symposium on Computer-Based Medical Systems (CBMS)</i> , pages 335–340 |
| 2013 | Iglesias, A. R., Aranguren, M. E., González, A. R., and Wilkinson, M. D. (2013). Plant Pathogen Interactions Ontology (PPIO). In Rojas, I. and Guzman, F. M. O., editors, <i>IWBBIO</i> , pages 695–702. Copicentro Editorial |
| 2011 | Aranguren, M., Fernández-Breis, J., and Antezana, E. (2011). OPPL-Galaxy: enhancing ontology exploitation in galaxy with OPPL. In <i>Proceedings of the 4th International Workshop on Semantic Web Applications and Tools for the Life Sciences</i> , pages 12–19. ACM |
| 2010 | Miñarro-Giménez, J., Aranguren, M., García-Sánchez, F., and Fernández-Breis, J. (2010). A semantic query interface for the OGO platform. In <i>Information Technology in Bio-and Medical Informatics, ITBAM 2010</i> , pages 128–142. Springer |
| 2008 | Egaña, M., Rector, A., Stevens, R., and Antezana, E. (2008). Applying ontology design patterns in bio-ontologies. In Gangemi, A. and Euzenat, J., editors, <i>Knowledge Engineering: Practice and Patterns</i> , volume 5268 of <i>Lecture Notes in Computer Science</i> , pages 7–16. Springer Berlin Heidelberg |

Preprints, Workshop Proceedings and other publications

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| 2015 | Aranguren, M. E. (2015). Merging OpenLifeData with SADI services using Galaxy and Docker (DOI 10.1101/013615). <i>BioRxiv, Cold Spring Harbor Labs</i> |
| 2012 | Horridge, M., Aranguren, M., Mortensen, J., Musen, M., and Noy, N. (2012). Ontology Design Pattern Language Expressivity Requirements. In <i>WOP (Co-located with ISWC), Boston, USA</i> |
| 2012 | Gimenez, J., Aranguren, M., and Tomas, J. (2012). NCBO-Galaxy: bridging the BioPortal web services and the Galaxy platform. In <i>ICBO, Graz, Austria</i> |
| 2009 | Fernandez-Breis, J., Aranguren, M., and Stevens, R. (2009). A quality evaluation framework for bio-ontologies. In <i>ICBO, Buffalo, USA</i> |

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| 2009 | Aranguren, M., Stevens, R., and Antezana, E. (2008b). Transforming the Axiomisation of Ontologies: The Ontology Pre-Processor Language. In <i>OWL Experiences and Directions (OWLED)</i> , Washington DC, USA |
| 2008 | Iannone, L., Egana, M., Rector, A., and Stevens, R. (2008). Augmenting the expressivity of the ontology pre-processor language. In <i>OWL Experiences and Directions (OWLED)</i> , co-located with ISWC, Karlsruhe, Germany |
| 2008 | Antezana, E., Blondé, W., Egana, M., Rutherford, A., Stevens, R., De Baets, B., Mironov, V., and Kuiper, M. (2008a). Structuring the life science resourceome for semantic systems biology: lessons from the BioGateway Project. In <i>Proceedings of the Workshop on Semantic Web Applications and Tools for Life Sciences (SWAT4LS): November 28, 2008; Edinburgh, United Kingdom</i> |
| 2012 | Marshall, M., Boyce, R., Deus, H., Zhao, J., Willighagen, E., Samwald, M., Pichler, E., Hajagos, J., Aranguren, M., Miller, M., Prud'hommeaux, E., Dumontier, M., and Stephens, S. (2012). Health Care and Life Science (HCLS) Linked Data Guide (http://www.w3.org/2001/sw/hcls/notes/hcls-rdf-guide/) |
| 2007 | Aranguren, M. (2007). ¿Qué puede hacer la web semántica por la biología? In <i>BioGaia 7</i> |
| 2003 | Aranguren, M. (2003). Software libre (GNU/linux) para biólogos. In <i>BioGaia 3</i> |

Committees and reviewer work

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|------|--|
| 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) |

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| 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 complexXity in Health Systems. In conjunction with the ACM International Conference on Information 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 complexXity in Health Systems. In conjunction with the ACM International Conference on Information 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

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| 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

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|------|---|
| 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 Engineering 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 Engineering 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 |

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| 2020 | Analysis and Design of Information Systems (6 ECTS). Degree in Computer Engineering 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 Elkarte, 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 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 |
| 2013 | Introductory talk on bioinformatics for high school students visiting the CBGP. Spanish |
| 2013 | Galaxy tutorials at CBGP. English and spanish |
| 2013 | Life Sciences Linked Data (1 ECTS). MSc Bioinformatics, UM. Spanish |
| 2012 | 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). English |
| 2011 | OWL/Description Logics, as part of the Artificial Intelligence course (UPM). Spanish |
| 2005-2008 | OWL tutorials for biologists (University of Manchester, UK). English |

Ph.D. panels

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| 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

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| 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 usando 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), Bachelor’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 framework generikoa”. Final Degree Project (TFG/GrAL), Bachelor’s Degree in Computer 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

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| 2023 | Tus estudiantes usan ChatGPT y lo sabes. 2 hours course by Grupo 9 de Universidades (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 |
| 2022 | Profesor Contratado Doctor. Issued by ANECA |
| 2022 | Profesor Agregado. Issued by UNIBASQ |
| 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 | UNIX. 24 hours course at 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 Data: Pubby, Trifid, Pool Party (Semantic Web Company), Corporate Memory (Eccenca GmbH), Morph-KGC

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: Docker, Docker compose, Ansible, Bamboo, Jenkins, Travis

Last updated: September 16, 2023