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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 **Erasmus student** Environmental Biology at Canterbury Christ Church University College, UK
2002 **Invited student** Evolutionary Ecology course Canterbury Christ Church University College

Employment

2014-Present **Post-doc researcher** Functional Genomics Group, University of Basque Country
2011-2014 **Marie Curie Cofund fellow** Ontology Engineering Group (Computer Science);
Biological Informatics Group (CBGP), UPM, Spain
2009 **Researcher** OGO project, UM, Spain
2006 **Marie Curie EST fellow** Computational Biology group, VIB, Belgium

Research visits

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

Funding

2011-2014 Marie Curie Cofund (EU)
2006 Marie Curie EST (EU)
2005 EPSRC (UK), Ph.D. fees
2005 - 2008 University of Manchester (UK), Ph.D. maintenance allowance
2002 Erasmus (EU)

Publications

Refereed Journal Articles

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|------|---|
| 2014 | Aranguren, M. E., González, A. R., and Wilkinson, M. D. (2014). Executing SADI services in Galaxy. <i>Journal of Biomedical Semantics</i> , <i>accepted for publication</i> |
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- 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. *Semantic Web Journal*, 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. *Semantic Web Journal*, 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. *Expert Systems with Applications*, 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. *Journal of biomedical semantics*, 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. *Current Bioinformatics*, 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. *Applied Ontology*, 6(3):247–261
- 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. *Journal of biomedical informatics*, 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. *Genome Biol*, 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. *BMC bioinformatics*, 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. *Data & Knowledge Engineering*, 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. *BMC bioinformatics*, 9(Suppl 5):S1

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| 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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Conference Proceedings

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| 2014 | González, A. R., Romero, M. M., Aranguren, M. E., and Wilkinson, M. D. (2014). 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 |

Workshop Proceedings and other publications

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| 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> |
| 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), Washington DC, USA</i> |
| 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), co-located with ISWC, Karlsruhe, Germany</i> |
| 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., Aranguren, M., Boyce, R., Deus, H., Zhao, J., Willighagen, E., Samwald, M., Pichler, E., Hajagos, J., Prudhommeaux, E., et al. (2012). Mapping and linking life sciences data using RDF (W3C Note) |

Invited Talks

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| 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 |

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| 2004 | Métodos y resultados actuales en Bioinformática: know-how y know-what de las redes tecnocientíficas en Bioinformática. EHU, Facultad de Filosofía, Spain |
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Teaching Experience

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| 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. MSc Bioinformatics, UM. Spanish |
| 2013 | Introductory talk on bioinformatics for high school students visiting the CBGP |
| 2013 | Galaxy tutorials at CBGP |
| 2013 | Life Sciences Linked Data. 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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| 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 |

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| 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 |
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Service

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