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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

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

Research visits

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

José Antonio Miñarro Giménez, Mikel Egaña Aranguren, Boris Villazón Terrazas, and Jesualdo Tomás Fernández (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
- 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
- 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
- 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*
- Miņarro-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*
- 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
- 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
- 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
- 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. *Bioinformatics*, 24(6):885

- Stevens, R., Egaña Aranguren, M., Wolstencroft, K., Sattler, U., Drummond, N., Horridge, M., and Rector, A. (2007). Using OWL to model biological knowledge. *International Journal of Human-Computer Studies*, 65(7):583–594
- 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. *BMC bioinformatics*, 8(1):57

Book Chapters

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 *Knowledge-Based Bioinformatics*, volume Gil Alterovitz and Marco Ramoni (Eds.), pages 67–86. Wiley Online Library

Conference Proceedings

- 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 27th International Symposium on Computer-Based Medical Systems (CBMS), pages 335–340
- 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, *IWBBIO*, pages 695–702. Copicentro Editorial
- Aranguren, M., Fernández-Breis, J., and Antezana, E. (2011). Oppl-galaxy: enhancing ontology exploitation in galaxy with oppl. In *Proceedings of the 4th International Workshop on Semantic Web Applications and Tools for the Life Sciences*, 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 *Information Technology* in Bio-and Medical Informatics, ITBAM 2010, pages 128–142. Springer
- Egaña, M., Rector, A., Stevens, R., and Antezana, E. (2008). Applying ontology design patterns in bio-ontologies. In Gangemi, A. and Euzenat, J., editors, *Knowledge Engineering: Practice and Patterns*, volume 5268 of *Lecture Notes in Computer Science*, pages 7–16. Springer Berlin Heidelberg

Workshop Proceedings and other publications

2012	Horridge, M., Aranguren, M., Mortensen, J., Musen, M., and Noy, N. (2012). On-
	tology Design Pattern Language Expressivity Requirements. In WOP (Co-located
	with ISWC), Boston, USA

- Gimenez, J., Aranguren, M., and Tomas, J. (2012). NCBO-Galaxy: bridging the BioPortal web services and the Galaxy platform. In *ICBO*, *Graz*, *Austria*
- Fernandez-Breis, J., Aranguren, M., and Stevens, R. (2009). A quality evaluation framework for bio-ontologies. In *ICBO*, *Buffalo*, *USA*
- Aranguren, M., Stevens, R., and Antezana, E. (2008b). Transforming the Axiomisation of Ontologies: The Ontology Pre-Processor Language. In *OWL Experiences and Directions (OWLEd)*, Washington DC, USA
- 2008 Iannone, L., Egana, M., Rector, A., and Stevens, R. (2008). Augmenting the expressivity of the ontology pre-processor language. In *OWL Experiences and Directions* (*OWLEd*), co-located with *ISWC*, Karlsruhe, Germany
- 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 *Proceedings of the Workshop on Semantic Web Applications and Tools for Life Sciences (SWAT4LS): November 28, 2008; Edinburgh, United Kingdom*
- 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

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

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

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

Service

2013	Special issue editor Semantic Web Journal
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

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