

Erick Antezana

Names: Erick Zimar
Date of birth: February 28th, 1976

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Citizenship: Bolivian

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Studies and diplomas

MSc. in Bioinformatics.
Formal degree: *Diplôme d'études approfondies (DEA) en bioinformatique*.
University of Geneva and University of Lausanne.
Geneva, Switzerland.

Systems Engineer.
Five-year program. Graduated with honors, final project dissertation 100/100.
Formal degree: *Licenciado en Ingeniería de Sistemas*.
Catholic Bolivian University.
Cochabamba, Bolivia.

Key skills

Creativity as well as strong critical and analytical thinking.

Research & Development

The University of Manchester	Manchester, UK
School of Computer Science	
Research visitor (ESF grant)	Winter 2007 - 2008
Dr. Robert Stevens	
Enriching the Cell-Cycle Ontology for enabling systems biology.	
http://www.CellCycleOntology.org	

Ghent University/VIB	Ghent, Belgium
Department of Plant Systems Biology	
PhD student	Spring 2005 - Now
Prof. Martin Kuiper and Prof. Bernard De Baets	
Development of an ontology-driven knowledge system for cell-cycle elucidation.	
http://www.CellCycleOntology.org	
BioGateway: an RDF store for supporting Systems Biology.	
http://www.semantic-systems-biology.org	

Free Brussels University	Brussels, Belgium
Service de Conformation de Macromolécules	
Biologiques et de Bioinformatique	
Scientific programmer	2003 - 2004
Prof. Shoshana Wodak	
Full time XP developer at the aMAZE project (http://www.amaze.ulb.ac.be).	

Swiss Institute of Bioinformatics	Geneva, Switzerland
Practical work	Summer 2002
Dr. Elisabeth Gasteiger	

Development of IsotopIdent (<http://www.isotopident.tk>).

Catholic Bolivian University	Cochabamba, Bolivia
Applied Informatics Research Institute	
Development	2000 - 2001
Prof. Reynaldo Vargas	
Porting the ExPASy system to Linux (http://bo.expasy.org).	

Catholic Bolivian University	Cochabamba, Bolivia
IT Services Department	
Administration	1999
Prof. Erik Peredo	
UNIX servers administrator (http://www.ucbcba.edu.bo).	

Catholic Bolivian University	Cochabamba, Bolivia
Applied Informatics Research Institute	
Development	1998
Prof. Reynaldo Vargas	
MELANIE 2D gel analysis software (Functional testing) (http://www.ucbcba.edu.bo).	

Teaching

Catholic Bolivian University	Cochabamba, Bolivia
Teaching	1998
PERL instructor (Summer 1999, 2000), Sendmail instructor(Spring 2000).	
Continuing education courses.	

Catholic Bolivian University	Cochabamba, Bolivia
Teaching Assistant	1998
Linear Algebra (1997), Data Structures (1998-1999), Internet Technology (2000-2001), Operating Systems (2000-2001), Algorithmic and Programming I (2000), Advanced Programming (2000).	
Undergraduate Courses.	

The University of Manchester	Manchester, UK
Teaching Assistant	1998
OWL-DL: Advanced tutorial for Biologists (Nov. 2007).	

Other professional highlights:

- Reviewer, Bioinformatics (Oxford journals), 2006 - present.
- Reviewer, Briefing in Bioinformatics (Oxford journals), 2008 - present.
- EU FP projects experience.

Other studies

- Summer School: Reasoning Web 2007. Dresden, Germany. September 2007.
- Training Course in Logic for Biomedical Research. Schloss Dagstuhl, Germany. June 2007.
- Training Course in Biomedical Ontology. Schloss Dagstuhl, Germany. May 2006.
- Course in Parallel Computing. Catholic Bolivian University. July 2000.
- Course in Neural Networks. Catholic Bolivian University. July 1998.
- Course in UNIX/Solaris Administration. Catholic Bolivian University. July 1997.

- Partial studies in the Mathematics program toward the bachelor degree. 4th semester in the program of studies at the “Universidad Mayor de San Simón”, Cochabamba, Bolivia. 1994-1996.
- Completion of the seven-year studies at the “San Agustín” high school in Cochabamba, Bolivia. 1986-1993.

Publications

- Antezana, E., Blondé, W., Egaña M., Rutherford, A., Stevens, R., De Baets, B., Mironov, V., Kuiper, M. *Structuring the life science resourceome for Semantic Systems Biology: lessons from the BioGateway project*. SWAT4LS - Semantic Web Applications and Tools for Life Sciences, e-Science Institute, Edinburgh, Scotland, UK. November 28, 2008.
- Egaña M., Rector A., Stevens R., Antezana E. *Applying Ontology Design Patterns in Bio-ontologies*. EKAU 2008, LNCS 5268, pp. 7-16, 2008.
- Egaña M., Antezana E., Kuiper M., and Stevens R. *Ontology Design Patterns for bio-ontologies: a case study on the Cell Cycle Ontology*. BMC Bioinformatics 2008, 9(Suppl 5):S1.
- Egaña M., Stevens R., Antezana E. *Transforming the Axiomatisation of Ontologies: The Ontology Pre-Processor Language*. OWLED 2008. Washington DC, USA, 1-2 April 2008.
- Antezana E., Egaña M., De Baets B., Kuiper M., Mironov V. *ONTO-PERL: An API supporting the development and analysis of bio-ontologies*. Bioinformatics 2008 24: 885-887.
- Egaña M., Stevens R., and Antezana E. *Ontology Design Patterns for bio-ontologies*. The 10th Annual Bio-Ontologies Meeting, Vienna, Austria, 2007.
- Antezana E., Tsiporkova E., Mironov V., and Kuiper M. *A cell-cycle knowledge integration framework*. DILS 2006, LNBI 4075, pp. 19-34, 2006.
- Lemer C., Antezana E., Couche F., Fays F., Santolaria X., Janky R., Deville Y., Richelle J., and Wodak S.J. *The aMAZE LightBench: a web interface to a relational database of cellular processes*. Nucleic Acids Research, 2004, Vol. 32, Database issue D443-D448.
- Antezana E. et al. *IsotopIdent: a tool for computing the theoretical isotopic distribution of compounds*. In preparation.
- Pavisic D., Argote G., Ordoñez S., Antezana O., Cary A., Antezana E., and Vargas R. *Avances en proteómica*. Acta Nova, 2000, Vol 1, N1.
- Antezana E. *Modelo de ayuda al desarrollo de agentes para el servicio de correo electrónico orientado al sendmail*. Final grade project in the program of Systems Engineering. Catholic Bolivian University.

Posters

- Antezana, E., Blondé, W., Egaña M., Rutherford, A., Stevens, R., De Baets, B., Mironov, V., Kuiper, M. *BioGateway: integrated RDF for life science queries*. SWAT4LS - Semantic Web Applications and Tools for Life Sciences, e-Science Institute, Edinburgh, Scotland, UK. November 28, 2008.
- Antezana, E., Egaña M., Blondé, W., Stevens, R., De Baets, B., Mironov, V., Kuiper, M. *The Cell Cycle Ontology: an application ontology supporting the Life Sciences*. SWAT4LS - Semantic Web Applications and Tools for Life Sciences, e-Science Institute, Edinburgh, Scotland, UK. November 28, 2008.
- Antezana, E., Egaña M., Blondé, W., Mironov, V., Stevens, R., De Baets, B., Kuiper, M. *The Cell Cycle Ontology: a step towards Semantic Systems Biology*. EKAU 2008 - The 16th International Conference on Knowledge Engineering and Knowledge Management Knowledge Patterns. Acitrezza, Catania, Italy. September 29-October 3, 2008.

- Antezana, E., Blondé, W., Egaña M., Stevens, R., De Baets, B., Mironov, V., Kuiper, M. *BioGateway: enabling Semantic Systems Biology*. MLSB08 - The 2nd International Workshop on Machine Learning in Systems Biology. Brussels, Belgium. September 13-14, 2008.
- Antezana, E., Blondé, W., Egaña M., Stevens, R., De Baets, B., Mironov, V., Kuiper, M. *Semantic Systems Biology: enabling integrative biology by semantic web technologies*. The 9th International Conference on Systems Biology. Gothenburg, Sweden. August 22-28, 2008.
- Antezana, E., Egaña M., Stevens, R., De Baets, B., Mironov, V., Kuiper, M. The Cell Cycle Ontology: an application ontology for data integration. The 9th International Conference on Systems Biology. Gothenburg, Sweden. August 22-28, 2008.
- Antezana, E., Egaña M., Mironov, V., Kuiper, M. *Ontology driven data integration for enabling systems biology*. The 8th International Conference on Systems Biology. Long Beach, California. October 1-6, 2007.
- Antezana, E., Mironov, V., Egaña, M., and Kuiper, M. *Ontology-driven Data Integration for Enabling Systems Biology: Cell-Cycle Ontology*. Integrative Bioinformatics. The 4th Annual Meeting, Ghent, Belgium, 2007.
- Antezana, E., Egaña, M., Mironov, V., and Kuiper, M. *CCO, a paradigm for knowledge integration*. The 10th Annual Bio-Ontologies Meeting, Vienna, Austria, 2007.
- Antezana, E., Tsiporkova, E., Mironov, V. and Kuiper, M. *Towards a richer Cell-Cycle Ontology*. BENELEARN, Ghent, Belgium. May 2006.
- Lemer C., Anerhour, H., Antezana, E., Couche, F., De Keyzer, S., Deville, Y., Fays, F., Hubaut, O., Sand, O., van Helden, J., Wodak, S. and Richelle, J. *aMAZE: A multi-layer data model for biological processes*. ISBM 2005 Detroit, USA. June 2005.
- Lemer, C., Antezana, E., Couche, F., De Keyzer, S., Fays, F., Hubaut, O., Richelle, J. and Wodak S. J. *The Snow system, a tool for the representation and analysis of networks*. ISMB/ECCB, Glasgow, UK. July 2004.
- Lemer, C., Antezana, E., Couche, F., Fays, F., Santolaria, X., Richelle, J., and Wodak, S. J. *The aMAZE Light Bench : a WEB interface for a relational database of biochemical pathways and cellular processes*. ECCB, Paris, France. September 2003.

Talks/presentations

- *Structuring the life science resourceome for Semantic Systems Biology: lessons from the BioGateway project*. Semantic Web Applications and Tools for Life Sciences. e-Science Institute, Edinburgh, Scotland, UK, 28.11.2008.
- *BioGateway: an RDF store for supporting Systems Biology*. W3C Healthcare and Life Sciences Interest Group (HCLSIG), BioRDF meeting, 06.10.2008.
- *Data-driven and hypothesis-driven research in Semantic Systems Biology*. Norwegian University of Science and Technology (NTNU). Trondheim-Norway, 29.04.2008.
- *The Cell-Cycle Ontology*. Workshop on Ontologies of Cellular Networks. Newark-USA, 28.03.2008.
- *A formal ontology for the cell-cycle domain*. Intégration des Systèmes d'Information en Biologie-ISIBio. Nancy-France, 21.11.2006.
- *A cell-cycle knowledge integration framework*. 3rd International Workshop on Data Integration in the Life Sciences. Hinxton-UK, 20.7.2006 - 22.7.2006.

Areas of interest

- Semantic Systems Biology
- Ontolome - Ontolomics
- Bio-Ontologies development
- Knowledge representation
- Knowledge bases / Biological Data Integration

Awards

- Grant given by the European Science Foundation (ESF) for a research visit to the University of Manchester. Manchester, UK. 11/2007 - 02/2008
- Grants given by the Swiss Institute of Bioinformatics for following the Masters degree in Bioinformatics. Geneva, Switzerland. 2001 - 2002
- Credit discounts due to academic performance. Catholic Bolivian University, program of studies in Systems Engineering. Cochabamba, Bolivia. 1994 - 1998
- Several awards in mathematics/physics contests. Bolivia. 1981 - 1993

Skills

- Languages: Spanish (Native), English (High-intermediate level), French (Intermediate level), Italian (Basics), Portuguese (Basics), Quechua (Basics), Dutch (Basics).
- Computer Skills: JAVA, PERL, C/C++, PHP, ANT, XML, Shell scripting, SQL, Unix, Linux (RedHat/Suse), Solaris, Mac OS X, Windows family, L^AT_EX, HTML.
- Bibliographic managers: EndNote, JabRef.
- Knowledge representation: OWL, RDF(S), OBOF.

Pastime interests

- Reading books, magazines.
- Sports: swimming and cycling.
- Movies, adventure trips, WWW.