

Curriculum Vitae



Personal information

First name / Surname	Yulixis Ramayo Caldas		
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Mobile	+34 699347058		
E-mail	yulixis@gmail.com		
Nationality	Cuban		
Date of birth	21/10/1980		
Gender	Male		

Personal statement and statement of intent

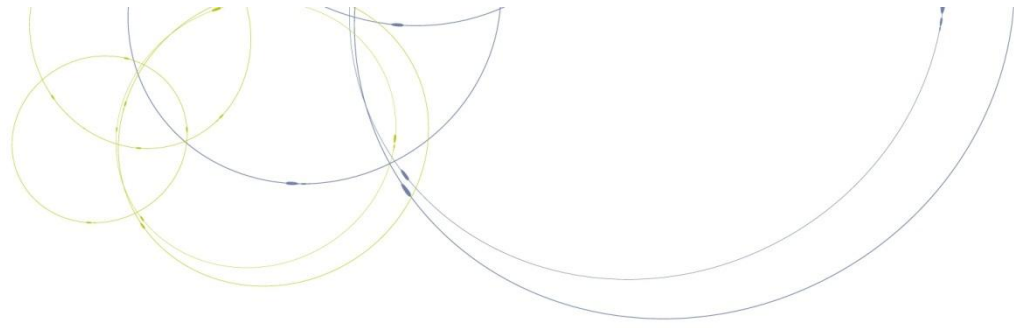
I am currently finishing my PhD at the Universitat Autònoma de Barcelona (Spain), the defense will be due in July 2013. In 2007 I got a MSc in Quantitative and Molecular Genetics applied to livestock granted by Mediterranean Agronomic Institute of Zaragoza and the International Centre for Advanced Mediterranean Agronomic Studies (IAMZ-CIHEAM, Zaragoza, Spain). Previously, I obtained a degree in Veterinary Sciences in Universidad de Granma (Cuba) in 2006.

My PhD project, supervised by Drs. Josep M. Folch and Miguel Perez-Enciso, is focused on the use of computational biology and statistical genetics methods for the identification of genes related with meat quality in pigs. We have integrated and analyzed different sources of data that was generated in our projects within a Systems Biology approach.

I consider that the mobility period content matches perfectly with my scientific goals and would represent a relevant step-forward in my scientific career, by providing me an important source of knowledge and experience. I am strongly motivated and convinced that I will be able to apply the contents and methodologies of it to my future as researcher in the fields of agriculture genomics and livestock production.

Education and training

Location and dates	Facultat de Veterinària. September 2009 – September 2011 Center for Research in Agricultural Genomics. September 2011 – July 2013.
Title of qualification awarded	PhD in Animal Production (Concentration: Animal Genetics)
Principal subjects/occupational skills covered	The topic of my thesis is the analysis of economically relevant traits in pigs using high throughput genomic technologies like SNP genotyping arrays and NGS data. During my PhD training, I also spent four months in CSIRO, Australia (Brisbane)



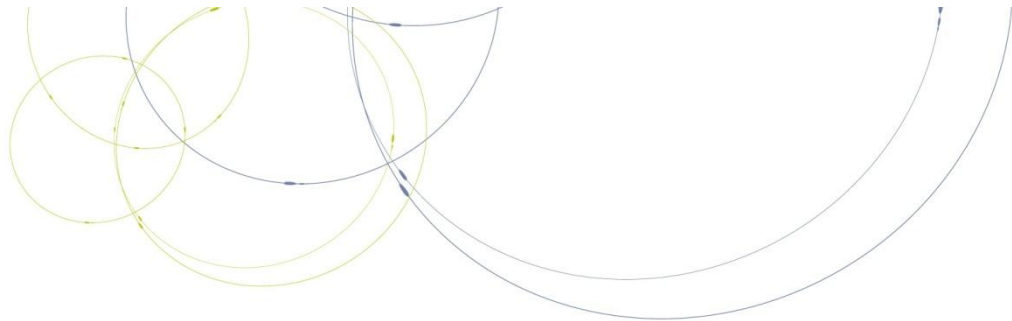
	receiving an Industrial Traineeship in System Biology. My skills are related to quantitative genetics, advanced level on R programming, Python and shell scripting. I have attended several courses on Bioinformatics and Statistical genetics, such as EMBO and Ensembl practical courses and workshops organized by the Statseq COST Action.
Name of Institute	Universitat Autònoma de Barcelona (UAB, Barcelona, Spain)

Location and dates	Universitat Politècnica de València. September 2007 – July 2008 Facultat de Veterinària, UAB. September 2008 – July 2009
Title of qualification awarded	Master of Science in Animal Breeding and Reproduction Biotechnology
Principal subjects/occupational skills covered	During the first year of the master, I receiving training to obtain the operative capacity to establish, develop and evaluate animal breeding programmes. The second year of the master was a period of initiation to research in which I was focused in the genetic characterization of local pigs breeds from Cuba and other countries worldwide.
Name of Institute	Universitat Politècnica de València (UPV, Valencia, Spain) Universitat Autònoma de Barcelona (UAB, Barcelona, Spain)

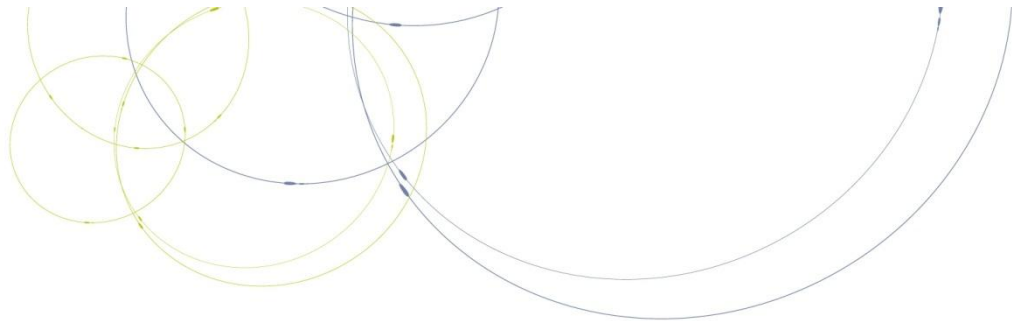
Languages					
Mother tongue(s)	Spanish				
Other language(s) <i>European level (*)</i>	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	<i>Spanish</i>	C2	C2	C2	C2
	<i>English</i>	B2	C1	B2	B2
	<i>Catalan</i>	B2	C1	B2	B2
(*) Common European Framework of Reference for Languages http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr					

Academic Record

Publications	<p>Accepted, in press and published articles / papers:</p> <ol style="list-style-type: none"> 1. J. Corominas, Y. Ramayo-Caldas, A. Puig-Oliveras, D. Pérez-Montarelo, J.L. Noguera, J.M. Folch, M. Ballester. <i>Polymorphism in the ELOVL6 Gene Is Associated with a Major QTL Effect on Fatty Acid Composition in Pigs</i>. PLoS ONE 01/2013; 8(1):e53687. 2. W. Burgos-Paz, C.A. Souza, H.J. Megens, Y. Ramayo-Caldas, M. Melo, C. Lemús-Flores, E. Caal, HW. Soto, R. Martínez, L A. Álvarez, L. Aguirre, V. Iñiguez, MA. Revidatti, O R Martínez-López, S Llambi, A Esteve-Codina, M C Rodríguez, R P M A Crooijmans, SR. Paiva, LB. Schook, MAM. Groenen & M. Pérez-Enciso. <i>Porcine colonization of the Americas: a 60k SNP story</i>. Heredity 12/2012. doi: 10.1038/hdy.2012.109. 3. Y. Ramayo-Caldas, N. Mach, A. Esteve-Codina, J. Corominas, A. Castelló, M. Ballester, J. Estellé, N. Ibáñez-Escriche, A. I Fernández, M. Pérez-Enciso, J. M Folch.
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	<p><i>Liver transcriptome profile in pigs with extreme phenotypes of intramuscular fatty acid composition.</i> BMC Genomics 10/2012; 13:547.</p> <p>4. M. Ballester, Anna Castelló, Y. Ramayo-Caldas, J. M Folch. <i>A Quantitative Real-Time PCR Method Using an X-Linked Gene for Sex Typing in Pigs.</i> Molecular Biotechnology 07/2012.</p> <p>5. Y. Ramayo-Caldas, A. Mercadé, A. Castelló, B. Yang, C. Rodríguez, E. Alves, I. Díaz, N. Ibáñez-Escriche, J.L. Noguera, M. Pérez-Enciso, A.I. Fernández, J.M. Folch. <i>Genome-wide association study for intramuscular fatty acid composition in an Iberian x Landrace cross.</i> Journal of Animal Science 07/2012; 90(9):2883-93.</p> <p>6. D. Pérez-Montarelo, N. J Hudson, A. I Fernández, Y. Ramayo-Caldas, B. P Dalrymple, A. Reverter. <i>Porcine tissue-specific regulatory networks derived from meta-analysis of the transcriptome.</i> PLoS ONE 01/2012; 7(9):e46159.</p> <p>7. A. I Fernández, D. Pérez-Montarelo, C. Barragán, Y. Ramayo-Caldas, N. Ibáñez-Escriche, A. Castelló, J. L. Noguera, L. Silió, J. M. Folch, M C. Rodríguez. <i>Genome-wide linkage analysis of QTL for growth and body composition employing the PorcineSNP60 BeadChip.</i> BMC Genetics 05/2012; 13:41.</p> <p>8. J. Corominas, Y. Ramayo-Caldas, A. Castelló, M. Muñoz, N. Ibáñez-Escriche, J.M. Folch, M. Ballester. <i>Evaluation of the porcine ACSL4 gene as a candidate gene for meat quality traits in pigs.</i> Animal Genetics 03/2012; 43(6):714-20.</p> <p>9. M. Muñoz, E. Alves, Y. Ramayo-Caldas, J. Casellas, C. Rodríguez, J.M. Folch, L. Silió, A.I. Fernández. <i>Recombination rates across porcine autosomes inferred from high-density linkage maps.</i> Animal Genetics 12/2011; 43(5):620-3.</p> <p>10. Y. Ramayo-Caldas, A. Castelló, R. Pena, E. Alves, A. Mercadé, C. Souza, A.I. Fernández, M. Perez-Enciso, J.M. Folch. <i>Copy number variation in the porcine genome inferred from a 60 k SNP BeadChip.</i> BMC Genomics. 01/2010. doi: 10.1186/1471-2164-11-593.</p> <p>11. Y. Ramayo, I.N. Shemeret'eva, M. Pérez-Enciso. <i>Mitochondrial DNA diversity in wild boar from the Primorsky Krai Region (East Russia).</i> Animal Genetics 02/2011; 42(1):96-9.</p> <p>Submitted publications:</p> <p>Several papers are in preparation.</p>
Presentations as invited speaker	
Books or books chapter author	
Participation in open calls for proposals as contributor or leader	
Graduate teaching as lecturer or training coordinator	<p>Teaching experience:</p> <p>In Academic Course 2006-2007 I was teaching Veterinary pharmacology at Universidad de Granma (Cuba). Since 2009, at UAB, I teach in the Veterinary and Biotechnology degrees (Quantitative and animal genetics) and also collaborate in the practical classes of bioinformatics on the Master of Science in Animal Breeding and Reproduction Biotechnology.</p>
Awards and prizes if any	<p>2005- National Award at the "XV National Computer Science Competition for Students of Higher Education". Cuba</p>



	<p>2006- National Award at the “XVI National Computer Science Competition for Students of Higher Education”. Cuba</p> <p>2007- National Award for Researching Students of Agricultural and Livestock Sciences. Cuba. (http://resultados.redciencia.cu/premios/n_acc/contenido_jovenesm_en.php?idpremio=20&year=2007)</p> <p>2007 - 2009 MsC Scholarship from the Mediterranean Agronomic Institute of Zaragoza.</p> <p>2009 - 2013 PhD Scholarship from the Spanish Ministerio de Educación (AP2008-01450)</p>
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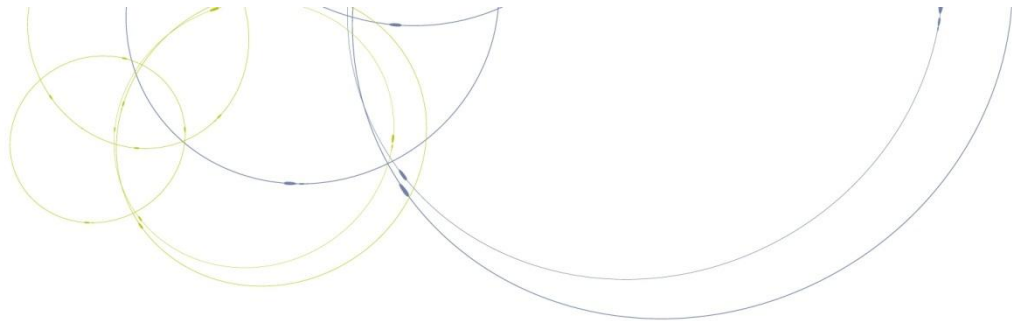
Collaboration and Networking

Participation in collaborative projects funded by competitive programmes	<ul style="list-style-type: none"> • Application of Genomics and Massive Parallel Sequencing methods to the study of genetic variants that regulate growth, conformation and meat quality in pigs (AGL2011-29821-C02-01). P.I.: Dr. J.M. Folch • Identifying candidate genes and gene networks underlying economically relevant traits in pig production (AGL2008-04818-C03/GAN). P.I.: Dr. J.M. Folch
Partnerships or experience with industry	
University or post-graduate programme leader	
Graduate teaching as lecturer or training coordinator	
Membership of professional bodies and committees	

Research management, Technology transfer and Communication

Team management	
Technological platform management	
Consultancy for the public or private sector	

Other experience and skills relevant to the application	<p>RESEARCH SKILLS:</p> <p>I have experience in linkage and association analysis, NGS data analysis, both genomic and RNA-Seq, and my bioinformatics/biostatistics skills are related to advanced level on R programming, Python and shell scripting.</p> <p>Besides, during my initial steps in my career I have also acquired knowledge in molecular biology techniques. This fact, together with my background formation in Veterinary Sciences, makes me especially suitable for research projects requiring strong interactions with researchers from different disciplines.</p>
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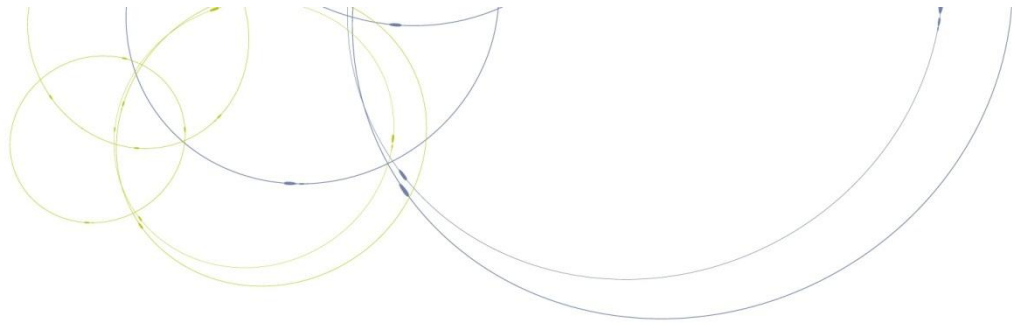


	<p>PEER REVIEWER Journal of Animal Science, Animal Genetics, BMC Genomics.</p> <p>PROFESIONAL TRAINING</p> <ul style="list-style-type: none"> • Gene Network Inference with Systems genetic data and beyond. AgroParisTech, Paris. 28 - 29 March 2013. • EMBO Practical course. Computational Biology: From genomes to cells and systems. L'Escala (Girona), Spain. 14 – 20 October 2012. • Ingenuity Pathway Analysis Advanced User Training. CSIRO Brisbane, Australia. 2 March 2012. • Industrial Traineeship in System Biology. CSIRO Brisbane, Australia. 24 Feb – 24 Jun 2012. • Statistical Learning Methods for DNA-based Prediction of Complex Traits. Wageningen, Netherlands. 17 – 21 October 2011. • Ensembl Developers Workshop (Core, Compara and Variation API). Barcelona, Spain. 4-6 Oct 2011. • Statistical challenges on the 1000€ genome sequences in plants. Toulouse, France. 14-15 April 2011. • Workshop on some problems in the analysis of high-throughput sequencing data. Barcelona, Spain. 23 – 25 Febrero 2011 • Bioinformatics software development and programming in Perl. Barcelona, Spain. 18 – 22 January 2010. • Genomic Selection. Universidad Politécnica de Valencia, Spain. 25 - 29 May 2009. • Complex Trait Genomic Analysis. Universidad Autónoma de Barcelona, Spain. 29 January – 7 February 2009.
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Scientific References

Full name	Dr. Antonio Reverter-Gómez
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Full name	Dr. Miguel Perez-Enciso
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Full name	Dr. Manuel Baselga Izquierdo
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