David Mas-Ponte

Bioinformatics - Genomics - Biotechnology

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Education

2015–2017 | **M.Sc. in Bioinformatics for Health Sciences**
Universitat Pompeu Fabra, Barcelona, Spain.

Specialization in Genomics - GPA: 9 / 10

2014 | Exchange Student
McGill University, Montreal, Canada.

Academic international exchange

2011–2015 | B.Sc. in Biotechnology
Universitat Autonoma de Barcelona, Spain.

GPA: 8.5 / 10

Research Experience

08 2017 - | **Institute for Research in Biomedicine** - *Ph.D. Student*
My Ph.D. project is enclosed in the field of computational genetics, studying how mutational processes shape the eukaryotic genomes. We use statistical and machine learning techniques to extract patterns from massive genomic data sets. In particular, we are interested in unraveling mechanisms of local hypermutation both somatically and in populations. **Fran Supek's Lab (AGENDAS)**.

2016 - 2017 | **Centre for Genomic Regulation (CRG)** - *Master Science Research Thesis*
My Master Thesis was focused in the link between lncRNAs' subcellular localization and their function. I have also developed a web-based DB using R and SQL to make subcellular expression data available to the scientific community. **Roderic Guigo's Lab, tutored by Rory Johnson**.

2015-2016 | **Institute of Evolutionary Biology (IBE)** - *Part time Research Internship*
I studied the evolutionary processes surrounding the RHD gene in Western Mediterranean populations in order to unravel demographic (*drift*) or adaptive (*selection*) processes. **David Comas' Lab**

06-08 2014 | **Molecular Biology Institute of Barcelona (IBMB)** - *Research Internship*
I took part in the study of the CIC (CapICua) protein in Drosophila development. I gained research skills in fruit fly genetics, in *in situ* hybridization and in recombinant DNA techniques for CRISPR/Cas9 set up. **Gerardo Jimenez's Lab**

Code

Good	Python, SQL & R
Fair	Perl, Shell, git & LaTeX
Learning	JavaScript (D3.js)

Publications & Conferences

2017

David Mas-Ponte, Joana Carlevaro-Fita, Emilio Palumbo, Toni Hermoso Pulido, Roderic Guigo, and Rory Johnson. Lncatlas database for subcellular localization of long noncoding rnas. *Rna*, 23(7):1080–1087, 2017 - *Peer-reviewed Journal*

Joana Carlevaro-Fita, Andres Lanzos, Lars Feuerbach, Chen Hong, **David Mas-Ponte**, Roderic Guigo, Jakob Skou Pedersen, Rory Johnson, et al. Unique genomic features and deeply-conserved functions of long non-coding rnas in the cancer lncrna census (clc). *bioRxiv*, page 152769, 2017 - *Preprint (under review)*

2016

Andre Flores-Bello, **David Mas**, Miruna Rosu, and David Comas. Genetic analysis and evolution of rh blood group system in basques. In *6th international conference of the series: DNA Polymorphisms in Human Populations, Musée de l'Homme, Paris*, December 2016 - *Peer-reviewed Conference - Poster*

Languages

Catalan	Mother tongue
Spanish	Bilingual Proficiency
English	**Fluent (FCE 2011)**

Scholarships & Awards

2015-2016 — MECD - COLAB - *Fellowship*

I was awarded with the Beca de Colaboracion (Collaboration Fellowship) in Department of Experimental and Health Sciences UPF by Ministerio de Educacion, Cultura y Deporte to collaborate in David Comas Lab.

09-10 2015 — JAE INTRO - CSIC - *Fellowship*

I was awarded with a JAE INTRO fellowship in Institute of Evolutionary Biology by Consejo Superior de Investigaciones Cientificas (CSIC) to collaborate in David Comas Lab.

2014-2015 — UAB + AGAUR Exchange - *Scholarship*

I was awarded with an scholarship from my university and from the Catalan government for my Exchange Academic Experience in CANADA.

07-08 2014 — Passa lestiu al parc-PCB - *Scholarship*

I was awarded with the scholarship Passa lestiu al parc by Barcelona Science Park (PCB) to collaborate in Gerardo Jimenezs Lab.

2013 — VI Premi de Recerca en Ciencies de la Salut-PRBB - *Award*

I received the VI Premi de Recerca en Ciencies de la Salut (Research Award in Health Science) by Research Park of Biomedicine in Barcelona (PRBB) for my high-school final research project "*Polymorphism in the CCR5 gene*".