Ignacio Sánchez Caballero

Computational Biologist

EDUCATION

September 2011 to present	**Ph.D. Candidate in Bioinformatics**	*Boston University, USA*

My research focuses on understanding host-virus interactions using computational approaches with an emphasis on data visualization.

June 2011	**M.S. in Bioinformatics**	*Complutense University of Madrid, Spain*

Awarded prize for best thesis: Improving microRNA target prediction by performance-based algorithm combination. bit.ly/thesis_2011

September 2006	**B.S. in Computer Science**	*Pontificia University of Salamanca, Spain*

RESEARCH EXPERIENCE

September 2012 to present	**Boston University, Department of Microbiology**	*Boston University, USA*

Identified candidate biomarker genes to distinguish between hemorrhagic fevers early after infection. Advisor: John H. Connor

Developed a software package for the R programming language to generate interactive visualizations. bit.ly/rclickme

March 2011 to present	**Biotechnology National Center**	*Madrid, Spain*

Developed an algorithm to combine and aggregate eleven microRNA-target prediction databases.

Fall 2009	**University of Málaga**	*Malaga, Spain*

Analyzed codon usage bias in bacteria using biclustering and scalable vector machine classifiers.

AWARDS

2011	***Fulbright Scholarship*** *to conduct doctoral studies in bioinformatics.*
August 2012	***Best poster*** *at ISCB Student Council Symposium (2nd prize).* bit.ly/lassa_poster

PUBLICATIONS AND PRESENTATIONS

2013	Malhotra, S., Yen, J. Y., Honko, A. N., Garamszegi, S., **Caballero, I. S.**, Johnson, J. C., Mucker, E. M., et al. (2013). *Transcriptional Profiling of the Circulating Immune Response to Lassa Virus in an Aerosol Model of Exposure*. (T. Geisbert, Ed.)PLoS Neglected Tropical Diseases, 7(4), e2171. doi:10.1371/journal.pntd.0002171
April 2013	*Early Detection of Highly Pathogenic Viral Infections.* bit.ly/quals_ppt

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COMPUTATIONAL SKILLS

Data analysis and visualization (R, JavaScript, D3)
Scripting (UNIX shell, Ruby, Python, Perl)
Sequencing and microarray tools (Tophat suite, limma, Bioconductor)

WORK EXPERIENCE

2008	**Sales Engineer** *at Dell Inc.*	*Montpellier, France*
2006 — 2007	**Supply-chain Key Administrator** *at Hewlett-Packard*	*Madrid, Spain*

PERSONAL

Speaks Spanish, French and English fluently.
Living in Boston since 2011 under a J1 immigration visa.
Born in 1983 in Las Palmas, Gran Canaria, Spain.