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Synopsis - Computational Biology and Data Sciences for Biomedical Systems

In January 2015 I took a new position as [Professor and Chief Technology Officer](#) at the Biomedical Informatics Department of Stony Brook University (State University of NY, Long Island). This follows 4 years as the inaugural director of a new Division in Informatics in the Dept of Pathology of the Univ Alabama at Birmingham (UAB), and 5 years as Professor of Bioinformatics in the Division of Applied Mathematics of the University of Texas MDAnderson Cancer Center (2005-2010). My current research interests are at the intersection of **Semantic Web** abstractions and distributed **Cloud Computing** approaches to **Bioinformatics application development** in the pervasive **Web Platform**. The use of computational statistics at the intersection of those two fields now gets a fancy new name, **Big Data Science**, which is also the focus of my educational and service activities. This research pulls together threads from past, and ongoing, work on mathematical modeling and machine learning for **Medical Genomics**, at a time when these fields are challenged by the increasingly data driven nature of modern Biomedical research. In my own work this has often focused on **The Cancer Genome Atlas (TCGA)**, a Biomedical Big Data resource that enables, and requires, this new synthesis for the development of **Personalized Medicine** applications. As **Population Health** data becomes available in real-time (see for example <http://bit.ly/pqiSuffolk>), the opportunities for pursuing Machine Learning as a pervasive Web Computing exercise are emerging, with a new avenues for research in **Artificial Intelligence** applications embedded in the increasingly patient-facing Health-Care enterprise.

Education, training

Institution and Location	Degree, year	Field of study
Faculty of Sciences, University of Lisbon, Portugal.	B.S. 1989	Plant Biology
Fac. Sciences and Technology, University Nova of Lisbon.	Ph.D 1995	Biological Engineering
University of Tennessee, ORNL, USA	Postdoc 1995	Microbial Ecology

Professional Experience

1993 - 1995 **Instructor of Biochemical Engineering**, Chemistry Department, University of Lisbon, Portugal.

1994 - 1996 Research Associate, Center for Environmental Biotechnology/University of Tennessee, Knoxville, TN.

1996 - 2000 Assistant Professor, Department of Chemistry, University of Lisbon, Portugal

1996 - 1998 Invited Associate Professor, Department of Applied Microbiology, University of Lund, Sweden.

1996 - 2011 Affiliated as Graduate Faculty of Inst. Tecnologia Química e Biológica, Univ Nova de Lisboa, Portugal.

1998 - 2001 Invited Professor, Belle Baruch Institute, University of South Carolina, Columbia, SC.

1999 - 2003 Consultant on neural computing at the Oak Ridge National Laboratories, Oak Ridge, TN.

2001 - 2005 Associate Professor (tenured), Department of Biostatistics, Bioinformatics and Epidemiology, Medical University of South Carolina, Charleston, SC.

2002 - 2005 Director of the Bioinformatics core facility of the NHLBI funded Proteomics Center at MUSC.

2004 - 2006 Director of MUSC's National Library of Medicine training grant on Biomedical Informatics.

2006 - 2010 Professor of Bioinformatics (tenured) of the University of Texas MDAnderson Cancer Center, Houston, Texas. Awarded an endowed distinguished professorship in 2008.

2007 - present Adjunct Professor of Health Informatics of the School of Health Information Sciences of the University of Texas.

2010 - 2014 Advisory Committee of **National Science Foundation** Directorate for Biological Sciences (BIO). Chair of the Data Working group in 2012.

2011 - 2014 Professor (tenured), Director, Div Informatics, Dept Pathology, University of Alabama at Birmingham.

2011 - 2014 Professor (adjunct), Department of Biomedical Engineering, UAB

2011 - 2014 Professor (adjunct), Department of Electrical and Computer Engineering, UAB.

2011 - 2014 Senior Scientist, UAB Comprehensive Cancer Center, Experimental Therapeutics Program.

2014 - Member of the Committee on Pathology Informatics of the American Society for Clinical Pathology (ASCP).

2015-present Professor, Chief Technology Officer, Dept Biomedical Informatics, Stony Brook University (The State University of New York).

Professional Memberships

1998 - 2005 Editorial board of the Journal of Microbiological Methods, Elsevier Pub.

1998 - 2005 American Soc. For Microbiology.

2001 - 2008 International Society for Mathematical Biology.

2002 - present International Society for Computational Biology. Chaired CSHALS in [2013](#) and [2014](#).

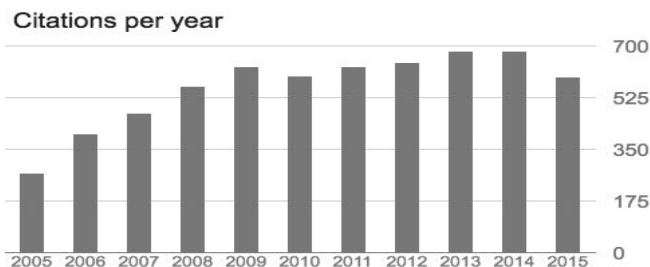
2009 - 2012 Editorial board of BMC Medical Genomics.

2011 - present Association of Pathology Informatics.

2012 - present Section Editor of BMC Medical Genomics.

Publications [[citations](#)] (~3/4 of total, [complete list at http://pub.jonasalmeida.info](http://pub.jonasalmeida.info))

	Citation indices	
	All	Since 2011
Citations	7491	3682
h-index	48	32
i10-index	122	90



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2. Crespo, J.P.S.G., J.S.Almeida, M.J.Moura, M.J.T.Carrondo (1990) Modelling of immobilized Cell Reactor for Propionic Acid Fermentation. *Biotechnology Bioengineering*, 36: 705-716. [[PMID:18597262](#)]
3. Reis, M.A.M., P.C.Lemos, J.S.Almeida, M.T.J.Carrondo (1991) Evidence for Intrinsic Toxicity of H₂S to Sulfate Reducing Bacteria. *Applied Microbiology and Biotechnology*, 36: 145-147.
4. Gonsalves, L.M.D., A.M.R.B.Xavier, J.S.Almeida, M.J.T.Carrondo (1991) Concomitant Substrate and Product Inhibition Kinetics in Lactic Acid Production. *Enzyme and Microbiol Technology*, 13: 314-319.
5. Barreto, M.T.O., E.P.Melo, J.S.Almeida, A.M.R.B.Xavier, M.J.T.Carrondo (1991) Kinetic Model for Calculating the Viability of Lactic Starter Cultures. *Applied Microbiology Biotechnology*, 34, 648-652.
6. Crespo, J.P.S.G., M.J.Moura, J.S.Almeida, M.J.T.Carrondo (1991) UF Membrane Cell Recycle for Continuous Culture of Propionibacterium. *Journal of Membrane Science*, 61, 303-314.
7. Crespo, J.P.S.G., A.M.R.B.Xavier, M.T.O.Barreto, L.M.D.Gonçalves, J.S.Almeida, M.J.T.Carrondo. (1992) Tangential Flow Filtration for Continuous Cell Recycle Culture of Acidogenic Bacteria. *Chemical Engineering Science*, 47(1): 205-214.
8. Reis, M.A.M., J.S.Almeida, P.C.Lemos, M.J.T.Carrondo (1992) Effect of Hydrogen Sulfide on Growth of Sulfate Reducing Bacteria. *Biotechnology and Bioengineering*, 40: 593-600. [[doi:10.1002/bit.260400506](#)]
9. Almeida, J.S., S.M.Julio, M.A.M.Reis, M.J.T.Carrondo (1995) Nitrite Inhibition of Denitrification by *Pseudomonas fluorescens*. *Biotechnology Bioengineering*, 46: 194-201. [[doi:10.1002/bit.260460303](#)]
10. Almeida, J.S., M.A.M.Reis, M.J.T.Carrondo (1995) Competition between nitrate and nitrite reduction in denitrification by *Pseudomonas fluorescens*. *Biotechnology Bioengineering*, 46: 476-484. [[doi:10.1002/bit.260460512](#)]
11. Almeida, J.S., A.Sonesson, D.B.Ringelberg, D.C.White (1995) Application of artificial neural networks (ANN) to the detection of *Mycobacterium tuberculosis*, its antibiotic resistance and prediction of pathogenicity amongst *Mycobacterium* spp. based on signature lipid biomarkers. *Binary-Computing in Microbiology*. 7: 53-59.
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16. Gonsalves, L.M.D., A. Ramos, J.S. Almeida, A.M.R.B. Xavier, M.J. Carrondo (1997). "Elucidation on the mechanism of lactic acid inhibition on growth and lactic acid production in batch cultures *Lactobacillus rhamnosus*". *Appl. Microbiol. Biotechnol.*,48:346-350.

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