Viviana Siless, Ph.D.

(Professor, Computer Scientist)

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Spanish/English/French

Academia

◇ *2015-2020* Full-time Assistant Professor and researcher at the University Torcuato Di Tella, Buenos Aires, Argentina. Laboratory of Artificial Intelligence.

◇ *2015-2020* Research fellow at the Athinoula A. Martinos Center for Biomedical Imaging, MGH / Harvard Medical School, Boston, U.S.. laboratory of computational neuroimaging (**LCN**) under the supervision of Dr. Anastasia Yendiki (2015-2018), Dr. Douglas Greve (2018-2020), Dr. Herminia Diana Rosas (2018-2020).

entrepreneurship

◇ *2018-current* Co-founder and CTO at **Quipu Market**: Marketplaces for slums in latinamerica, currently in Colombia. We incorporate a local complementary currency to increase purchasing power and record transactions to provide equitable financial services for the unbaked. I lead and manage a development team of 4 developers and 1 tester. Meet the founding team and see our webapp.

Awards: the IDB Lab, Fundacion Santo Domingo, Banco de Desarrollo de America Latina, Village Capital, Visa Everywhere, Finnovista, FinnoSummit Algorand blockchain solutions, World Bank Group, Fast Forward, Upswell, MIT designX, MIT sandbox and MIT innovation initiative.

Fast Company: The 10 most innovative companies in Latin America in 2022

Education

◇ *2010-2014* Ph.D. in Computer Science, Université Paris-sud (EDIPS), France. **Parietal Team, INRIA Saclay**. Research Topic: Multi-modal and multi-structure image registration for the human brain.

◇ *2007-2010* M.Sc. in Computer Science. **School of Sciences, University of Buenos Aires, Argentina**

Honors

◇ *2021* Global Digital Disruptor Award.

◇ *2021* Algorand Foundation Grants. 200K usd.

◇ *2021* Algorand Finnovista Summit - 2nd Place Winner.

◇ *2017* Google -Women Techmakers -TensorFlow Dev Summit Travel grant.

◇ *2013* Trainee Abstract Travel Award for the Organization for Human Brain Mapping.

◇ *2002* Volleyball World Cup Technical support internship due to high school highest grades.

diversity and inclusion

◇ *2019-2020* Chair of Women in Science at the Martinos Center for Biomedical Imaging. Lectures and meetings to bring awareness of gender, racial, cultural, and identity discrimination in the workspace.

Teaching and Organizing seminars

◇ *2022-current* Professor the University Torcuato Di Tella: Algorithms and Data Structure III and Analytical methods applied to businesses
◇ *2019-2020* Co-organizer of Brain Map Seminar Series at Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital / Harvard Medical School.
◇ *2018* Co-chair of organizing committee, BrainHack Global Boston, MIT (International event)
◇ *2016-2018* Teaching assistant and lecturer for the FreeSurfer bi-annual course. Course description here. **MGH/Harvard Medical school**
◇ *2008-2009* **School of Sciences, University of Buenos Aires, Argentina**. Teaching assistant for the *Software Engineering I* course at the Department of Computer Sciences.

Industry Professional Experience

◇ *2021-current* Chief Technology Officer (CTO) at **BioMakers**. Leading development for oncological gene testing platform, doctors request, doctors educational platform about pharmas and new available therapies, data acquisition, data curation, AI proyects for drug discovery and therapies evolution.
Development: Python, c#, sql server, posgress, vue, Amazon Web Services
◇ *2018-current* Chief Technology Officer (CTO) at **Quipu Market**. Leading the developmnet of the market place, blockchain and AI.
Development: Angular, ionic, node, typescript, javascript, java, firebase, algorand (blockchain), python, google cloud platform.
◇ *2007-2009* Software architect and Full-stack Software Developer at **Lagash Systems**
Development: C#,ASP.NET, MS SQLserver2008, Oracle, AJAX, Biztalk Server 2006.
◇ *2005-2006* Full-stack Software Developer at **Accendra, currently Globant**
Development: J2SE, J2EE, JSP,Struts Framework, Persistency Framework Hibernate, XML, HTML, SQL Oracle, Eclipse, BEA Weblogic 8.1, JUnit, Swing,MySQL, Oracle 9, Ant, xDoclet, C#.net, Asp.net, Ms Sql Server, nHibernate, nUnit.

Technical Skills

◇ Programming languages: C, C++, Java, C#, Python, ASP .net, Visual Basic, SQL, JavaScript, HTML, ASP, JSP, CSS, node.js, angular, Firebase, ionic.
◇ Skills: machine learning, optimization methods, statistical analysis, blockchain, diffusion MRI, Magnetic Resonance Imaging (MRI) sequence set up and operation.
◇ Reviewer: 28 verified reviews: **Publons profile**

Top publications

Full publication record: https://scholar.google.com/citations?user=TcvYFPUAAAAJ
◇ Siless, V., Hubbard, N. A., Jones, R., Wang, J., Lo, N., Bauer, C. C. C., . . . Yendiki, A. (2020). Image acquisition and quality assurance in the Boston Adolescent Neuroimaging of Depression and Anxiety study. NeuroImage: Clinical, 26, 102242. https://doi.org/10.1016/j.nicl.2020.102242
◇ Siless V, Chang K, Fischl B, Yendiki A: AnatomiCuts: Hierarchical clustering of tractography streamlines based on anatomical similarity. NeuroImage 166: 32-45 (2018)
◇ Siless V, Glaunes JA, Guevara P, Mangin J-F, Poupon C, Le Bihan D, Thirion B, Fillard P: Joint T1 and Brain Fiber Log-Demons Registration Using Currents to Model Geometry. Medical Image Computing and Computer Assisted Intervention (MICCAI) (2) 2012: 57-65