

RESUME

Didier Augusto Vega Oliveros

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PROFILE

Researcher at Brazilian National Institute of Space Research (INPE) with experience in Artificial Intelligence and Machine learning applied to Big Data systems for high-scalability. He holds a B.Sc degree in Computer and Systems Engineer from Universidad Nacional de Colombia and received his Masters and Ph.D. in Computer Science and Computational Mathematics at Universidade de São Paulo, Brazil. He was visiting researcher at Northeastern University, USA, under the supervision of Dr. Albert-László Barabási; at Universidad de la Plata, Argentina, working with Dr. Federico Vazquez; and at Humboldt University of Berlin, Germany, in an international project led by Dr. Jürgens Kurths. He has participated in projects applied to industry and society, employing Computational Intelligence and Machine Learning methods for Big Data analysis, proposing scalable solutions with distributed, parallel and cloud computing systems. His research experience includes the study of Ubiquitous Computing, User-Computer Interaction (HCI) and multimodal interfaces for the development of intelligent systems. He also worked on research related to Complex Networks theory and their dynamical processes, such as the spreading of epidemics, rumors or opinions on social networks. Currently, his fields of interests encompass Machine Learning based on Complex Networks, modeling Climate systems and disasters risk reduction and management.

EDUCATION / TITLES

- **2017 – 2019 Postdoctoral research fellow**
Project: *Dynamical processes in complex network based on machine learning*
Supervisor: [Zhao Liang](#)
Supervisor: [Elbert E. N. Macau](#)
Supported by São Paulo Research Foundation (FAPESP)
Univeristy of Sao Paulo – USP and National Institute of Space Research – INPE, Brazil
- **2013 – 2017 PhD in Computer Science**
Title: *Rumors and Information Spreading on Social Networks*
Advisor: [Francisco Aparecido Rodrigues](#)
Co-Advisor: [Luciano da Fontoura Costa](#)
Scholarship from National Council for Scientific and Technological Development (CNPq)
Univeristy of Sao Paulo - USP, Brazil
- **2009 – 2011 MSc in Computer Science**
Title: *Media-Oriented Operators for Authoring Multimedia Documents: Interactors*
Advisor: [Maria da Graça Campos Pimentel](#)
Scholarship from National Council for Scientific and Technological Development (CNPq)
Univeristy of Sao Paulo - USP, Brazil
- **2003 – 2008 Bachelor's degree in Computer Engineering**
Title: *Mobile Virtual Network Operators (MVNOs) and Potential Actors in Colombia*
Advisor: [Zoila Inés Ramos de Florez](#)
National University of Colombia, Bogotá, D.C., Colombia

- 2017 **Research Visitor** at Humboldt University of Berlin, Germany
Invited by: [Jürgens Kurths](#)
Supported by DFG-IGRK 1740/2 and FAPESP 2015/50122-0 joint project
- 2016 **Research Visitor** at National University of La Plata, Argentina
Advisor: [Federico Vázquez](#)
Supported by Santander Scholarship award
- 2014 **Student Visitor** at Center for Complex Network Research (CCNR)
Advisor: [Albert-László Barabási](#)
Northeastern University, United States of America

✓ Spanish ✓ Portuguese ✓ English

Currently with 20 academic publications. **Google Scholar** citations 73, *h-index* 6, *i10-index* 3

- 2016 **Student Travel Award from SoFiA** – Latin American School on Data Analysis and Mathematical Modeling of Social Science, financed by CELFI – Latin American Center for Interdisciplinary Training.
- 2016 **Santander Scholarship** for Academic Exchange Visit
- 2015 **Student Travel Award from IJCAI** – International Joint Conferences on Artificial Intelligence.
- 2008 **Undergraduate Exchange Student Grant** – National University of Colombia.

✓ Cloud Computing	✓ ClickOnce	✓ Complex Networks
✓ Back-end software architectures	✓ SCRUM	✓ Machine learning
✓ OpenMP/MPI	✓ DevOps	✓ Ubiquitous computing
✓ Ontologies	✓ Agile Methodologies	✓ Human Computer Interaction
✓ XML, JSON, REST, SOAP	✓ TDD, Usability test	✓ WindowsPhone7, Android

- 02/2017 – 06/2017 **University Herminio Ometto, UNIARARAS**, Brazil. – Faculty of Engineering
Assistant Professor at Faculty of Engineering teaching the courses of: Computer Programming I (classes A and B) and Computer Programming III (classes A, B, C, D, E, and G).
- 05/2011 - 01/2013 **Invit Information Services** – R&D team of Intelligence Agents and Semantic Framework
Software Architect: the technical leader that coordinates the Semantic Framework team of the **Agentto project** (www.agentto.com).
- 03/2009 - 10/2009 **Intermedia lab at ICMC/USP** – TIDIA-Ae project (www.tidia-ae.usp.br)
Software Engineer: Development of a player in NCLua and SMIL that enables the review and synchronization of captured data (chat session, video conferencing and electronic whiteboard) for the DiGaE tool (Distributed Gathering Environment) of the TIDIA-Sakai Project of Univesity of Sao Paulo.