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Enrique A. Areyan Viqueira

Education

- 2017–Present **Doctoral Candidate, Computer Science**, *Brown University*, Providence, RI.
- 2015–2017 **Master of Science, Computer Science**, *Brown University*, Providence, RI.
- 2013–2015 **Master of Arts for Teachers, Math**, *Indiana University*, Bloomington, IN.
- 2011–2013 **Master of Science, Computer Science**, *Indiana University*, Bloomington, IN.
- 2003–2010 **Licenciado en Computación**, *Universidad Central de Venezuela*, Caracas.

Experience

- 08/2015–Present **Research Assistant**, *Brown University*, Providence, RI.
Construction and analysis of automated agents that pursue specific objectives and that act on complex environments governed by a specific set of rules. An example of this work is the construction of an automated trading agent for the TAC AdX competition where agents compete with other agents for advertisement contracts which they must fulfill in order to obtain a reward.
- 06/2017–09/2017 **Research Scientist Intern**, *Amazon.com*, Seattle, WA.
Machine learning science. Adaptive buying strategies for tail products.
- 01/2013–05/2015 **Associate Instructor, Mathematics**, *Indiana University*, Bloomington, IN.
Courses taught: Math-T 101, Mathematics for Elementary Teachers I (Spring 2014). Other courses (assisting): Calculus III, Finite Math, Linear Algebra, Mathematical Foundations of Informatics.
- 01/2012–12/2012 **Research Assistant**, *Indiana University*, Bloomington, IN.
Development of practical techniques using off-the-shelf emulators (virtualization software) to ensure long-term viability of CD-ROM materials. Supervision of a team of undergraduates. Development of the project's web archive.
- 11/2008–06/2011 **Director**, *Grupo ESW LLC*, *www.estoesweb.com*, Caracas, Venezuela.
Conceptualization, development and marketing of MiWeb, a software for medium and small-sized companies that enables to quickly and easily have a useful presence on the web.
- 02/2010–06/2010 **Lecturer/Coordinator**, *Universidad Central de Venezuela*, Caracas, Venezuela.
Responsibilities included: preparing classes, supervising other lecturers, supervising and selecting teaching assistants and preparing exams.
- 03/2009–01/2010 **Teaching Assistant**, *Universidad Central de Venezuela*, Caracas, Venezuela.
Discrete Mathematics II. Responsibilities included: preparing T.A. sessions, supervising other teaching assistants and preparing quizzes.
- 05/2005–03/2008 **Web Analyst I and Project Lead**, *GlobalWebTek Ltd*, Caracas, Venezuela.
Over 3 years of analysis requirement (including meetings with clients), systems analysis, design and implementation, as well as subsequent maintenance and documentation. Among the most important projects I participated: PhotoXS, a digital photo handling system based on Netherlands; Hertz Rent a Car web-based rental system in Venezuela; and Net2Client, a comprehensive web-based CRM system with WebInABox, a CMS companion.
- 08/2003–04/2005 **Web Analyst II**, *GlobalWebTek Ltd*, Caracas, Venezuela.
Over 2 years of development of multiple web-based systems using PHP as server side scripting language and HTML/CSS/JavaScript as frontend markup technologies.

Coursework

- @Brown Design and Analysis of Algorithms, Reinforcement Learning, Topics in Optimization, Game Theory, Advanced Algorithmic Game Theory, Foundations of Prescriptive Analytics, Reading and Research.
- @IU Artificial Intelligence, Advanced Database Concepts, Bioinspired Computing, Theory of Computing, Machine Learning, Combinatorics, Modern Algebra, Analysis, Probability Theory, Statistical Theory, Introduction to Geometries, Mathematical Models and Applications, Seminar in Teaching College Math, Mathematical Reading and Research.

Languages

- English **Full professional proficiency**
Spanish **Native or bilingual proficiency**

Honors and Awards

- 2014 **College of Arts and Sciences Top Up Award** *Indiana University.*
2013 **Finalist, Healthicity, B.E.S.T. Competition** *Indiana University.*
2006 **Scholarship to pursue Bachelor of Science degree.** *GlobalWebTek Ltd.*

Certifications

- 2015 **Introduction to Philosophy** *Coursera*
2013 **Paradox and Infinity** *edX Verified Certificate*
2011 **Building PHP Apps using Zend Framework** *Zend Technologies, Inc.*
2007 **Web Usability Course** *Chicago, EEUU*
2006 **Web 2.0 Conference** *Boston, EEUU*
2005 **PHP Advanced Course** *Las Vegas, EEUU*

Publications

- [1] Enrique A. Areyan Viqueira, Amy Greenwald, and Victor Naroditskiy. On approximate welfare- and revenue-maximizing walrasian equilibrium for size-interchangeable bidders. *AAMAS 2017. Extended Abstract.*, 2017.
- [2] Enrique A. Areyan Viqueira. Principled autonomous decision making for markets. *AAMAS 2017. Doctoral Consortium.*, 2017.
- [3] Enrique A. Areyan Viqueira, Amy Greenwald, Daniels Collins, and Victor Naroditskiy. On revenue-maximizing walrasian equilibrium for size-interchangeable bidders. *Lecture Notes in Business Information Processing. Springer.*, 2017.
- [4] Enrique A. Areyan Viqueira, Amy Greenwald, Daniels Collins, and Victor Naroditskiy. On revenue-maximizing walrasian equilibrium for multi-minded bidders. *Agent-Mediated Electronic Commerce and Trading Agents Design and Analysis 2016. Workshop at IJCAI16*, 2016.
- [5] Enrique A. Areyan Viqueira and Esfandiar Haghverdi. Predicting order direction using support vector machines. *Student presentation at The 6th Annual Conference on High-Frequency Finance and Data Analytics (HF2015)*, 2015.
- [6] Swetha Toshniwal, Geoffrey Brown, Kevin Cornelius, Gavin Whelan, and Enrique Areyan. Evaluating assisted emulation for legacy executables. *iPRES 2012 (International Conference on Preservation of Objects)*, 2012.
- [7] Enrique A. Areyan Viqueira and Ignacio Calderon. Ant colony based software framework to solve optimization problems. *Jornadas de Investigación y Extensión. Facultad de Ciencias. Universidad Central de Venezuela*, 2010.

Extracurricular Activities

- women.acm.org: Overhaul and maintenance of ACM's women in computing webpage.