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Enrique A. Areyan Viqueira

Education

2015 – Present	**Doctoral Candidate, Computer Science**, *Brown University*, Providence, RI. Advisor: Dr. Amy Greenwald `https://cs.brown.edu/people/faculty/amy/`.
2017	**Master of Science, Computer Science**, *Brown University*, Providence, RI.
2015	**Master of Arts for Teachers, Math**, *Indiana University*, Bloomington, IN.
2013	**Master of Science, Computer Science**, *Indiana University*, Bloomington, IN.
2011	**Bachelor of Science, Business/Finance**, *University of Phoenix*, Online.
2010	**Licenciado en Computación**, *Universidad Central de Venezuela*, Caracas.

Experience

2015 – Present	**Research Assistant**. Computer Science Department, Brown University. Providence, RI.
	Applied Research Scientist Intern, *Amazon.com*, Seattle, WA.
Summer 2019	Sponsored Products, Mechanism Design. Auction Optimization.
Summer 2018	Sponsored Brands, Machine Learning Science. Advertisement relevance.
Summer 2017	Machine Learning Science, Adaptive buying strategies for tail products.
2013 – 2015	**Associate Instructor, Mathematics Department**. Indiana University. Bloomington, IN.
2012 – 2013	**Research and Teaching Assistant, School of Informatics and Computing**. Indiana University. Bloomington, IN.
2009 – 2011	**Lecturer, Course Coordinator, and Teaching Assistant**. Universidad Central de Venezuela. Caracas, Venezuela.
2008 – 2011	**Web Development Startup**. Grupo ESW LLC. Caracas, Venezuela.
2003 – 2008	**Web Analyst and Project Leader**. GlobalWebTek Ltd. Caracas, Venezuela.

Honors and Awards

2019	**2nd Place**, *International Automated Negotiating Agents Competition (ANAC-SCML)*, International competition to advance research on automated agent negotiation. `http://web.tuat.ac.jp/~katfuji/ANAC2019/`.
2018	**Kanellakis Fellowship**, *Brown University*, Awarded by a committee of the faculty to students accepted into the C.S. Ph.D. program. `http://cs.brown.edu/degrees/doctoral/pck_fellowship.html`.
2014	**Top Up Fellowship**, *College of Arts and Sciences, Indiana University*, Award recognizing admission to a highly competitive mathematics graduate program.
2006	**GlobalWebTek Scholarship**, *GlobalWebTek Ltd. Caracas, Venezuela*, Fully-funded scholarship to pursue online Bachelor's degree in Finance.

Teaching Experience

Spring 2020	**Instructor** - Introduction to Computation for the Humanities and Social Sciences. Brown University, students: TBD.
Spring 2018	**Co-Instructor** - Algorithmic Game Theory. Brown University, students: 30
Fall 2017	**Teaching Assistant** - Artificial Intelligence. Brown University, students: 60
Spring 2015	**Instructor** - Mathematics for Elementary Teachers I. Indiana University, Bloomington, students: 25
Fall 2014	**Instructor** - Mathematics for Elementary Teachers I. Indiana University, Bloomington, students: 40
Spring 2014	**Instructor** - Mathematics for Elementary Teachers I. Indiana University, Bloomington, students: 25
Fall 2014	**Teaching Assistant** - Finite Math. Indiana University, Bloomington, students: 40
Spring 2013	**Teaching Assistant** - Linear Algebra. Indiana University, Bloomington, students: 22
Fall 2013	**Teaching Assistant** - Calculus III. Indiana University, Bloomington, students: 20
Sumer 2013	**Teaching Assistant** - Mathematical Foundations of Informatics. Indiana University, Bloomington, students: 30
Spring 2011	**Teaching Assistant and Lab Instructor** - Algorithms and Data Structures I. Universidad Simon Bolivar, Caracas, Venezuela students: 20
Spring 2011	**Teaching Assistant** - Discrete Structures III. Universidad Simon Bolivar, Caracas, Venezuela, students: 20
Fall 2010	**Teaching Assistant** - Discrete Structures I. Universidad Simon Bolivar, Caracas, Venezuela, students: 20
Spring 2010	**Instructor** - Discrete Mathematics II. Universidad Central de Venezuela, students: 25
Fall 2009	**Teaching Assistant** - Discrete Mathematics II. Universidad Central de Venezuela, students: 25

Teaching Development

Teaching Certificates by the Sheridan Center for Teaching & Learning Brown University

Spring 2018	**Certificate I**: Sheridan Teaching Seminar - Reflective Teaching

Advising

Master Theses

2017	Co-Advised Luke Camery (now at Google) on his Master Thesis: On Information Aggregation in Prediction Markets.

Publications

Peer-reviewed Articles

[C.7] **Enrique Areyan Viqueira**, Cyrus Cousins, Yasser Mohammad, and Amy Greenwald. (2019). Empirical Mechanism Design: Designing Mechanisms from Data. *22nd International Conference, Principles and Practice of Multi-Agent Systems (UAI).*

[C.6] **Enrique Areyan Viqueira**, Amy Greenwald, Cyrus Cousins, and Eli Upfal. (2019). Learning Simulation-Based Games from Data. *Proceedings of the 18th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS).*

[C.5] Yasser Mohammad, **Enrique Areyan Viqueira**, Nahum Alvarez Ayerza, Amy Greenwald, Shinji Nakadai, and Satoshi Morinaga. (2019). Supply Chain Management World - A Benchmark Environment for Situated Negotiations. *Proceedings of the Thirty-Fifth Conference on Uncertainty in Artificial (PRIMA).*

[C.4] **Enrique Areyan Viqueira**, Amy Greenwald, and Victor Naroditskiy. (2017). On Approximate Welfare- and Revenue-Maximizing Equilibria for Size-Interchangeable Bidders. *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems (AAMAS).*

[C.3] **Enrique Areyan Viqueira**. Principled Autonomous Decision Making for Markets. (2017). *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems (AAMAS).*

[C.2] **Enrique Areyan Viqueira**, Amy Greenwald, Victor Naroditskiy, and Daniels Collins*. (2016). On Revenue-Maximizing Walrasian Equilibria for Size-Interchangeable Bidders. *Agent-Mediated Electronic Commerce. Designing Trading Strategies and Mechanisms for Electronic Markets (AMEC/TADA).*

[C.1] Swetha Toshniwal, Geoffrey Brown, Kevin Cornelius*, Gavin Whelan*, and **Enrique Areyan Viqueira**. (2012). Evaluating Assisted Emulation for Legacy Executables. *International Conference on Preservation of Objects. Agent-Mediated Electronic Commerce. Designing Trading Strategies and Mechanisms for Electronic Markets (iPRES).*

Informal Publications

[I.3] **Enrique Areyan Viqueira**, Amy Greenwald, Cyrus Cousins, and Eli Upfal. (2019). Learning Equilibria Simulation-Based Games from Data. *CoRR.1905.13379.*

[I.2] **Enrique Areyan Viqueira**, Amy Greenwald, and Victor Naroditskiy. (2017). On Approximate Welfare- and Revenue-Maximizing Equilibria for Size-Interchangeable Bidders. *CoRR.1708.03097.*

[I.1] **Enrique Areyan Viqueira**, and Ignacio Calderon. (2010). Ant Colony based software framework to solve optimization problems. *Jornadas de Investigación y Extensión. Facultad de Ciencias. Universidad Central de Venezuela.*

Publications in Industry

[A.3] **Enrique Areyan Viqueira**, Hao Li, Barath Ezhilan, Jayash Koshal and MohammadTaghi Hajiaghayi. (2019). Budget-aware allocation strategies for Sponsored Production auctions. Final research internship report at *Amazon.com.*

[A.2] **Enrique Areyan Viqueira**, and Jayash Koshal. (2018). Semantic Shopper Intent Algorithm (SSIA) for Non-Latin Characters. Final research internship report *Amazon.com*, and submission to *Amazon Machine Learning Conference (AMLC).*

[A.1] **Enrique Areyan Viqueira**, Jayash Koshal, and Hernan Awad. (2017). A Clustering Approach to Selection of Fringe ASINs. Final research internship report *Amazon.com.*

Presentations and Poster

[P.5] **Enrique Areyan Viqueira**, Cyrus Cousins, Yasser Mohammad, and Amy Greenwald. (2019). Empirical Mechanism Design: Designing Mechanisms from Data. Invited presentation at *The 2019 INFORMS Annual Meeting (INFORMS).*

[P.4] Kweku Kwegyir-Aggrey*, **Enrique Areyan Viqueira**, and Sarah Brown. (2019). Estimating Competitive Equilibria for Convex Valuations. Poster at *Black in AI (BAI).*

[P.3] **Enrique Areyan Viqueira**, Amy Greenwald, Cyrus Cousins, and Eli Upfal. (2019). Learning Simulation-Based Games from Data. Poster at *The 20th ACM Conference on Economics and Computation (EC).*

[P.2] **Enrique Areyan Viqueira**, Amy Greenwald, and Victor Naroditskiy. (2017). On Approximate Welfare- and Revenue-Maximizing Equilibria for Size-Interchangeable Bidders. Poster at *New York Computer Science and Economics Day (NYCE).*

[P.1] **Enrique Areyan Viqueira**, and Esfandiar Haghverdi. (2015). Predicting order direction using support vector machines. Student presentation at *The 6th Annual Conference on High-Frequency Finance and Data Analytics (HF2015).*

*Undergraduate or incoming graduate student as a co-author

Open-Source Software

2019   pySEGTA: a python library for statistical, Empirical Game-Theoretical Analysis. [C.6].
Source: `https://github.com/eareyan/egta`

2016-2018   AdX Game: an implementation of the AdX Game. [C.2].
Source: `https://github.com/eareyan/adxgame`

2015-2018   Envy-Free prices: a flexible JAVA framework for Combinatorial Matching Markets [C.4].
Source: `https://github.com/eareyan/envy-free-prices`

Service

Professional Service: Conference Peer-Reviewing

2019   Principles and Practice of Multi-Agent Systems (PRIMA).

Committees

2019   Diversity Committee, Computer Science Department, Brown University.

2016   Computer Science Department Graduate Student Advocate to the Graduate Student Council, Brown University.

Languages

English   Full professional proficiency

Spanish   Native or bilingual proficiency