Enrique Noriega-Atala

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Education

Ph.D. Information Science, The University of Arizona (expected summer 2019).
- Minor: Statistics

M.S. Computer Science, The University of Arizona (2014).

B.S. Information Technologies, Monterrey Institute of Technology and Higher Education (2010).

Professional Experience

2013 - present Graduate Research Associate, The University of Arizona (UA)

2013 - present Teaching Assistant, UA. Courses:

Computer Organization (2013)

Data Structures (2014)

Information Retrieval and Web Search (2015, 2016)

Introduction to Machine Learning (2017)

2012 - present Software Development Consulting, Fresh Software Concepts LLC (FSC)

2010 - 2012 Sr Software Developer, FSC

2009 - 2010 Software Developer, Teknol, SA de CV

2008 - 2009 Internship at Centro de Investigación y Desarrollo de Ingeniería Avanzada, AC

2007 - 2008 Web Developer, Optima Commerce LLC

Research Interests

Machine Learning, Reinforcement Learning, Natural Language Processing, Artificial Intelligence, Statistics.

Honors and Awards

UA Graduate & Professional Student's Council Travel Grant (2018).

UA School of Information's Travel Award (2018).

International Conference in Data Mining Student Award (2018).

Galileo Circle Scholar, UA's College of Science (2014).

Instituto Educativo Sonora-Arizona scholarship (2013-2014).

CONACyT graduate studies scholarship (2012-2014).

CENEVAL's outstanding performance testimony on the EGEL test (2010).

Presentations and Publications

Journal Publications

Enrique Noriega-Atala, Paul D. Hein, Shraddha S. Thumsi, Zechy Wong, Xia Wang, Sean M. Hendryx, Clayton T. Morrison
Extracting Inter-sentence Relations for Associating Biological Context with Events in Biomedical Text. *IEEE/ACM transactions on computational biology and bioinformatics. 2019.*

Marco A. Valenzuela-Escárcega, Özgün Babur, Gus Hahn-Powell, Dane Bell, Thomas Hicks, **Enrique Noriega-Atala**, Xia Wang, Mihai Surdeanu, Emek Demir, Clayton T. Morrison.
Large-scale Automated Machine Reading Discovers New Cancer Driving Mechanisms. *Database: The Journal of Biological Databases and Curation. 2018.*

Conference Publications

Enrique Noriega-Atala, Marco A. Valenzuela-Escárcega, Clayton T. Morrison and Mihai Surdeanu. Learning what to read: Focused machine reading. *Proceedings of the Conference on Empirical Methods in Natural Language Processing* (EMNLP), 2017.

Workshop Publications

Enrique Noriega-Atala, Marco A. Valenzuela-Escáarcega, Clayton T. Morrison and Mihai Surdeanu. Focused Reading: Reinforcement Learning for What Documents to Read. *Proceedings of the Interactive Machine Learning and Semantic Information Retrieval Workshop at ICML, 2017.*

Marco A. Valenzuela-Escárcega, Özgün Babur, Gus Hahn-Powell, Dane Bell, Thomas Hicks, **Enrique Noriega-Atala**, Xia Wang, Mihai Surdeanu, Emek Demir, Clayton T. Morrison.
Large-scale Automated Reading with Reach Discovers New Cancer Driving Mechanisms. *Proceedings of the BioCreative VI Workshop* (BioCreative6 2017), 2017, pp. 200-202.

Enrique Noriega-Atala, Paul D. Hein, Shraddha S. Thumsi, Zechy Wong, Xia Wang, Clayton T. Morrison.
Inter-sentence Relation Extraction for Associating Biological Context with Events in Biomedical Texts. *Proceedings of the Sixth Workshop on Data Mining in Biomedical Informatics and Healthcare at ICDM, 2018.*

Enrique Noriega-Atala, Zhengzhong Liang, John A. Bachman, Clayton T. Morrison, Mihai Surdeanu. Understanding the Polarity of Events in the Biomedical Literature: Deep Learning vs. Linguistically-informed Methods. *Proceedings of the Workshop on extracting structured knowledge from scientific publications at NAACL-HLT, 2019.* (In Press)

Conference Presentations

Learning what to read: Focused machine reading. *NLP Applications track, EMNLP*, Copenhagen, Denmark (2017).

Grounding Gradable Adjectives through Crowd-sourcing *Language Resources and Evaluation Conference*, Miyazaki, Japan (2018).

Inter-sentence Relation Extraction for Associating Biological Context with Events in Biomedical Text. *Sixth Workshop on Data Mining in Biomedical Informatics and Healthcare at ICDM*, Singapore (2018).

Guest Lectures

What is Machine Learning?. For the course *Knowledge-based Systems in the Organizations. Systems and Industrial Engineering program.* Monterrey Institute of Technology and Higher Education, Hermosillo, México (2015).

Skills

Programming Languages:

Python, Scala, Java, C#, C, C++, JavaScript, VB.NET

Systems administration

Unix-like environment proficiency.

Bash scripting.

Relational DBMS (SQL Server, Postgres, MySQL) and NoSQL experience (Redis, Neo4J).

Cloud computing environment experience with Azure and AWS.

Open Source Software

SARSAmora: A Reinforcement Learning library for Scala (`https://github.com/ml4ai/SARSAmora`)

Last updated: April 6, 2019