



Alberto Moya Loustaunau

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I am a Bachelor's degree in Computer Science. I have large work experience as a Developer, Data Scientist, and Data Engineer. Currently, I am a Ph.D. student majoring in Computer Science. I am collaborating research at the Millennium Institute for Foundational Research on Data and Millennium Institute for Astrophysics. My research interests include Semantic Web, Large-Scale Data Processing (Big Data) and Data Mining. I have experience in the area of Artificial Intelligence, with emphasis on Machine Learning, Data Mining, Big Data, and Cloud Computing.

Education

- PH.D. in Computer Science (expected)** **Chile**
○ *Universidad de Chile, Advisor: Prof. Aidan Hogan* *March 2017–December 2022*
Topic: Predicting SPARQL Query Dynamics.
- Bachelor of Science in Computer Science** **Cuba**
○ *Universidad de Oriente, Advisor: Msc. José Cruzata* *September 2006–July 2011*
Topic: Development of Web Services System to Text Mining.

Complementary Education

- CC5206-1 Introduction to Data Mining** **Universidad de Chile, Chile**
○ *Exploring Data, Classification, Clustering, Association Rules* *Spring 2018*
- CC7220-1 The Web of Data** **Universidad de Chile, Chile**
○ *RDF, RDFS, OWL, SPARQL, Linked Data, RDB2RDF* *Spring 2017*
- CC5212-1 Massive Data Processing** **Universidad de Chile, Chile**
○ *Distributed Systems, HDFS, Hadoop, Pig, Spark, Information Retrieval* *Fall 2017*
NoSQL Databases, MongoDB, Cassandra, Neo4J, Streaming, Kafka
- Pattern Recognition** **Universidad de Oriente, Cuba**
○ *Methodologies, Approaches, Problems, Evaluations* *2015*
- Web Programming** **Universidad de Oriente, Cuba**
○ *HTML, PHP, JavaScript, MySQL, Ecommerce, Frameworks* *2014*
- Introduction to Natural Language Processing** **Universidad de Oriente, Cuba**
○ *Extraction, Transformation, Search,* *2013*
Clustering, Classification, Regression, Association Analysis, Visualization

- **Parallel Computing,** **Universidad de Oriente, Cuba**
Multi-core computing, Distributed computing, Synchronization Methods 2013
 C++, OpenMP, MPI

Certifications

- **Professional Data Engineer** **Google Cloud**
https://www.credential.net/d9cbe6df-8431-40c8-a2ae-f3188cfd3d01 December 2021–December 2023
- **Professional Data Engineer** **Google Cloud**
https://www.credential.net/vpdziu2u August 2019–August 2021
- **Associate Cloud Engineer** **Google Cloud**
https://www.credential.net/kkmm0tv1 June 2019–June 2021
- **Architecting with Google Cloud Platform** **Coursera**
https://www.coursera.org/account/accomplishments/specialization/4TZAVVTA3A7K August 2019

Work Experience

- **Universidad de O'Higgins** **Chile**
https://www.uoh.cl/ August 2020–
 Adjunct Professor
- **MILLENNIUM INSTITUTE FOR ASTROPHYSICS** **Chile**
https://www.astrofiscamas.cl/ March 2020–
 Research Assistant
- **ZENTA GROUP** **Chile**
https://www.zentagroup.com/ December 2018–December 2019
 Data Scientist
- **DATYS. TECHNOLOGICAL SOLUTIONS** **Cuba**
http://www.datys.cu July 2011–March 2017
 Software Developer

Projects

- **PH.D. Project (Ongoing)** **Universidad de Chile, Chile**
Predicting SPARQL Query Dynamics 2018–
 RDF, SPARQL, Semantic Web, Machine Learning
- **ALeRCE Broker (Ongoing)** **MAS/CMM, Chile**
Automatic Learning for the Rapid Classification of Events 2020–
 Python, Kafka, Spark, NoSQL, Machine Learning
- **Data Lake Design on Google Cloud** **ZENTA, Chile**
Data Lake design for a large Company September 2019–December 2019
 Google Cloud, Kafka, PubSub, Dataflow, Cloud Storage, BigQuery
- **Development of Distributed Graph Algorithms** **DATYS, Cuba**
Construction of Distributed Graph Centrality Algorithms September 2016–March 2017
 Pregel, Apache Spark, Scala, GraphX.
- **Development of a Management System for Hatuey Brewery** **HATUEY, Cuba**
Construction of a Web Management System September 2011–June 2012

Symfony, PHP, JavaScript, HTML5, MySQL, MVC, Template Engine, YAML

- **Development of Social Networks Analysis System** **DATYS, Cuba**
Construction Social Mining System July 2011–March 2017
Java, C++, Maven, Jenkins, TFS.
- **Development of Web Services System to Text Mining** **DATYS, Cuba**
Construction of a Web Services System, based on Grid September 2010–June 2011
Globus Toolkit 5, Java, SOAP, WSDL, Text Mining

Teaching Experiences

- **COM4002-1 Massive Data Processing** **Universidad de O'Higgins, Chile**
Distributed Systems, HDFS, Hadoop, Pig, Spark, Information Retrieval 2nd Semester 2020,2021
NoSQL Databases, MongoDB, Cassandra, Neo4J, Streaming, Kafka
- **CC661-1 Big Data** **Universidad de Chile, Chile**
Distributed Systems, HDFS, Hadoop, Pig, Spark, Information Retrieval Falls 2019-2021, Spring 2018
NoSQL Databases, MongoDB, Cassandra, Neo4J, Streaming, Kafka
- **CC5212-1 Massive Data Processing** **Universidad de Chile, Chile**
Distributed Systems, HDFS, Hadoop, Pig, Spark, Information Retrieval Fall 2018-2021
NoSQL Databases, MongoDB, Cassandra, Neo4J, Streaming, Kafka
- **CC5206-1, CC5206-2 Introduction to Data Mining** **Universidad de Chile, Chile**
Exploring Data, Classification, Clustering, Association Rules Fall 2019

Publication

- **The Automatic Learning for the Rapid Classification of Events (ALeRCE) Alert Broker** **AJ 2021**
The Astronomical Journal 2021, <https://arxiv.org/abs/2008.03303>
- **Alert classification for the ALeRCE broker system: The light curve classifier** **AJ 2021**
The Astronomical Journal 2021, <https://arxiv.org/abs/2008.03311>
- **Alert Classification for the ALeRCE Broker System: The Real-time Stamp Classifier** **CoRR 2020**
arXiv preprint arXiv:2008.03309, <https://arxiv.org/abs/2008.03309>
- **Estimating the Dynamics of SPARQL Query Results Using Binary Classification** **QuWeDa 2019**
ISWC 2019, Auckland, New Zealand, <http://ceur-ws.org/Vol-2496/paper1.pdf>
- **Linked Open Data Validity - A Technical Report from ISWS 2018** **ISWS 2018**
ISWS 2018, Bologna, Italy, <http://arxiv.org/abs/1903.12554>

Supervision

- **Yanelis Albuerno Batista (co-supervised with Msc. Rolando Aguilera)** **Universidad de Oriente, Cuba**
Bachelors in Computer Science September 2011–June 2012

Technical and Personal skills

- **Programming Languages:** Proficient in: Python, C++, Java, R, Bash, TeX
Also basic ability with: Assembly, Scala, Scheme, Haskell, Golang, PHP, JavaScript, HTML.
- **Industry Skills:** Agile Development (Scrum, TFS, Redmine), Build tool (Maven, Ant), Code Inspection (SonarQube), Continuous Integration (Jenkins), Source Versioning (Subversion, Git).

Languages

- **Spanish:** Native
- **English:** Understanding Functional , Speaking Functional , Writing Functional , Reading Functional

Date

- Last Update: February, 2022