

Luis Enrique Bobadilla Dias
Computer Scientist

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Education

<i>Kansas State University</i>	<i>Manhattan, KS</i>
<i>Bachelor of Science in Computer Science</i>	<i>May 2018</i>
<i>Master of Science in Computer Science</i>	<i>May 2020</i>

Programming Languages

Python, C/C++, C#, MySQL, Cypher, mongoDB, docker, neo4j

Languages

English, Spanish, Portuguese, Russian

Experience

Graduate Teaching Assistant *January 2020-Present*

Department of Computer Science | Kansas State University
TA for *Machine Learning and Pattern Recognition (CIS 732)*: Theory and methodology of inductive learning, including decision trees, artificial neural networks, probabilistic and instance-based learning, and inductive logic programming; unsupervised and reinforcement learning, bagging and boosting; genetic algorithms and genetic programming; and applications to data mining.

Graduate Research Assistant *August 2018-Present*
Research Assistant *June 2018-August 2018*

Laboratory for Knowledge Discovery in Databases | Kansas State University
Primarily working on *Livermore Project* which consists of information extraction and document filtering for the domain involving nano-material manufacturing. Secondly collaborating on *HPC Project* which involves machine learning for predictive analytics of compute cluster jobs. Also working on a project in the anomaly detection domain.

Junior Developer *July 2019-August 2019*

Softec S.R.L | Asunción, Paraguay
Helped implement a facial recognition system using RGB camera. Neural network training for face classification using depth data from the Microsoft Kinect V2 depth sensor. Integration of facial recognition system with a client web application.

Intern *June 2019-July 2019*

Ministry of Information and Communications Technologies (MITIC) | Asunción, Paraguay
Mainly worked with the open data team, under the general direction of electronic government. Worked on the transition from a CKAN based portal to a DKAN based portal. I was also responsible for debugging the current portal. Future work involved discovering vulnerabilities and create alerts for such through all portals.

Undergraduate Teaching Assistant *August 2017-December 2017*
College of Engineering | Kansas State University

Guide students through the fundamentals of Computer Science by assisting with homework, projects and assignments.

Undergraduate Research Programmer - Team Lead

June 2016-July 2017

Laboratory for Knowledge Discovery in Databases | Kansas State University

Implemented nearest neighbor algorithm with voronoi diagrams and K-D trees to map crashes to traffic flow sensors for use in prediction modeling for machine learning.

Publications

Yang, H., Aguirre, C. A., De La Torre, M. F., Christensen, D., Bobadilla, L., Davich, E., Roth, J., Luo, L., Theis, Y., Lam, A., Han, T. Y.-J., Buttler, D., & Hsu, W. H. (2019). Pipelines for Procedural Information Extraction from Scientific Literature: Towards Recipes using Machine Learning and Data Science. Proceedings of the 2nd International Conference on Document Analysis and Recognition Workshop on Open Services and Tools for Document Analysis (ICDAR-OST 2019), Sydney, Australia, September 21, 2019.

Bobadilla, Luis. (2020). Graph mining for role extraction in predictive analytics of high-performance computing systems. K-State Research Exchange (K-REX). Manhattan, Kansas, April 20, 2020

Accomplishments/Projects

2016 K-State Hackathon - **4th Overall** - Best Developer Tool - Best Use of Garmin Connect API
Created an interactive watch application for Vivoactive Garmin smartwatch which uses GPS location and text messaging services to send alert.

C# List-Serv Formatter

Reads and parses a file to facilitate the uploading of contacts in bulk to the ListServ. Used by the International Buddies Student Club to save time when sending out event emails.

Organizations

ACM-SIGAI President, Co-founder, Secretary/Treasurer

August 2016 –May 2018

Co-founder of the student organization. Collaborated with other academic departments and student organizations to promote the benefits of AI. Organized an underclassmen programming contest.

International Buddies, Online Communications Director

August 2015-May 2016

Managed the Twitter, Facebook, website, and ListServ emails.

References

Dr. William Hsu

bhsu@ksu.edu

Professor

Associate Director of Graduate Programs

Director, Laboratory for Knowledge Discovery in Databases (KDD)

Dr. Dan Andresen

dan@ksu.edu

Profesor

Dr. Josh Weese

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Teaching Assistant Professor