Ana Valeria Gonzalez

PhD student in Natural Language Processing/ Data Scientist at BotXO

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Education

University of Copenhagen, Denmark   2018 – 2021
PhD in Natural Language Processing
Supervisor: Anders Søgaard and Isabelle Augenstein
Project: *Building emotionally Intelligent dialogue systems*

> ➢ Project focuses on improving the performance of dialogue systems in low resource language as well as in different domains, with an emphasis on improving the detection and response to emotion.

University of Copenhagen, Denmark   2015- 2017
M. Sc in IT and Cognition
Supervisor: Anders Søgaard
Thesis: *Using Gaze to Predict Text Readability: The effects of Cognitive Data and Multi-task learning on Automatic Readability Assessment*

> ➢ Project involved the use of deep learning and multi-task learning in order to improve the prediction of text difficulty

Universidad Abierta y a Distancia, Mexico   2016-2021
Studies in Applied Mathematics (online studies)

> ➢ Linear Algebra, Differential Calculus, Statistics, Probability, etc

University of California, San Diego (UCSD)   2011- 2015
B. Sc in Cognitive Science
Specialization in Neuroscience

> ➢ Language cognition, Morphology
> ➢ Computational Neuroscience, Mirror Neuron Systems
> ➢ MATLAB, JAVA, C++

Work Experience

Data Scientist   2018 – Current
BotXO

> ➢ working on the integration of NLP methods into chatbots aimed for business services.
> ➢ Partnership with University of Copenhagen

Short-Term Research Assistant   Oct 2017 – Dec 2017

University of Copenhagen, Department of Computer Science

➢ Work on many projects involving the use of Machine learning/Deep Learning algorithms for Natural Language Processing research. Projects include:
  ➢ Unsupervised Learning
  ➢ Cross-lingual grammatical error detection
  ➢ Evaluation of cross-lingual word embeddings

Data analyst and Research Assistant   July 2016 – September 2017

BRATLab   University of Copenhagen

➢ Data analysis at Brain Rehabilitation, Advanced Technology and Learning lab, a Cognitive Neuroscience laboratory at KU. Primarily involved in the extraction algorithms and the analysis of eye tracking data with the focus on studying children's reading disabilities.

Data Scientist   Jan 2016 – July 2016

Fluency ApS

➢ Predominantly worked with large amounts of text data applying machine learning methods for the task of document classification.

Undergraduate Research Assistant

Language and Cognition Lab, UCSD   Sept 2013 – June 2014

➢ Worked on various projects dealing with language and cognition, specifically bilinguals in English and Spanish. We studied the cognitive costs of switching between the two languages, as well as differences processing for each language. My duties involved mainly the analysis of behavioral data as well as data collected electronically (through the use of tools like mechanical turk).

Teaching Experience

Instructional Assistant

COGS1: Introduction to Cognitive Science   Spring Quarter, 2014

Supervisor, Dr. Benjamin Amsel   UCSD

➢ Duties involved assisting lectures, offering office hours for students to come and ask material related questions, writing test questions and preparing a weekly discussion lecture.

Science Demonstrator

Reuben H. Fleet Science Center, San Diego, CA   December 2014 – August 2015

➢ Performed science demonstrations for children, primary school groups and high school students, in order to help them become interested in Science. Some demonstrations outside the museum and in assisting in other exhibits.

Education and Volunteer Programs Assistant

Birch Aquarium, San Diego, CA   March 2013 – July 2014

➢ Administrative position that also involved training volunteers on basic marine biology knowledge related to the research done at Scripps Institution of Oceanography

Conference Papers	Ana V. Gonzalez-Garduño and Anders Søgaard . 2017. *Learning to predict readability using gaze data from natives and learners of English. (Accepted submission at the 32nd AAAI Conference)*
	Ana V. Gonzalez-Garduño and Anders Søgaard . 2017. *Using Gaze to Predict Text Readability. 2th Workshop on Innovative Use of NLP for Building Educational Applications, EMNLP. Copenhagen, Denmark.* http://www.aclweb.org/anthology/W/W17/W17-5050.pdf
	Ana V. Gonzalez-Garduño and Anders Søgaard . 2017. *Using Gaze to Predict Text Readability: A Multi Task Learning Approach. 19th European Conference on Eye Movements.* Poster *session. Wuppertal, Germany.*
Computer Skills	Linux, Python, Javascript, CSS, Latex, HTML, MATLAB, SQL, Tableau Experience with machine learning/deep learning using Keras
Language Skills	**Fluent level:** English, Spanish. **Intermediate level:** Danish (B1), Portuguese(B2)