

# Ana Valeria González

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

### University of California, San Diego (UCSD)

2011- 2015

B. Sc in Cognitive Science

Specialization in Neuroscience

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## Work

### Experience

#### Data Scientist

2018 – Current

BotXO

- working on the integration of NLP methods into chatbots aimed for business services.

#### 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.
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## 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.
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## Teaching Experience

### Teaching Assistant

COGS1: Introduction to Cognitive Science, UCSD

Spring Quarter, 2014

- 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
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## Publications

*Ana V. Gonzalez Garduño, Isabelle Augenstein, Anders Søgaard. 2018. A strong baseline for question relevancy ranking. Conference on Empirical Methods in Natural Language Processing (EMNLP) 2018. Brussels, Belgium*

*Maria Barrett, Ana V. Gonzalez Garduño, Lea Frermann and Anders Søgaard. 2018. Unsupervised induction of linguistic categories with records of reading, speaking, and writing. North American Chapter of the Association for Computational Linguistics (NAACL). New Orleans, Louisiana*

*Ana V. Gonzalez-Garduño and Anders Søgaard. 2017. Learning to predict readability using gaze data from natives and learners of English. AAAI 2018. New Orleans, USA.*

*Ana V. Gonzalez-Garduño and Anders Søgaard. 2017. Using Gaze to Predict Text Readability. 12th 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.*

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## Computer Skills

Linux, Python, Javascript, CSS, Latex, HTML, MATLAB, SQL, Tableau

Experience with machine learning/deep learning using Keras, tensorflow

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## Language Skills

**Fluent level:** English, Spanish. **Intermediate level:** Danish (B1), Portuguese(B2)

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