

# Albert M. Orozco Camacho

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## Personal Details

Website <https://alorozco53.github.io/>  
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## Areas of Interest

- Network Science
- Natural Language Processing
- Representation Learning
- Deep Learning for Graphs
- Reinforcement Learning

## Education

- 2019– **Master of Science Degree**, *McGill University*, Montréal, Canada, Supervised by Prof [Reihaneh Rabbany](#); *Current GPA: 3.93/4.0.*  
Computer Science
- 2012–2017 **Bachelor of Science Degree**, *Facultad de Ciencias, Universidad Nacional Autónoma de México (UNAM)*, Mexico City, México, *GPA: 8.82 / 10.*  
Computer Science
- 2015 **Attended the 2015 Jelinek Summer School on Human Language Technologies**, *Summer school.*
- 2009–2012 **High School**, *Prepa Tec de Monterrey, Campus Guadalajara*, Guadalajara, Jalisco, México, *GPA: 91 / 100.*  
Secondary School Certificate

## Theses

- BSc. **Automatic Generation of Internet Memes using a Deep Neural Network.**  
[Faculty of Sciences, UNAM.](#) pp. 111.

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## Publications

- 2020 **ComplexDataLab at W-NUT 2020 Task 2: Detecting Informative COVID-19 Tweets by Attending over Linked Documents.**  
Kellin Pelrine, Jacob Danovitch, Albert Orozco Camacho, and Reihaneh Rabbany *Proceedings of the Sixth Workshop on Noisy User-generated Text (W-NUT 2020)* pp. 434–439
- 2016 **LIPN-IIMAS at SemEval-2016 Task 1: Random Forest Regression Experiments on Align-and-Differentiate and Word Embeddings penalizing strategies.**  
Lightgow, O. , Meza, I. , Orozco, A. , Garcia-Flores, J., and Buscaldi, D. *Proceedings of the 10th International Workshop on Semantic Evaluation (SemEval-2016)* pp. 726–731.
- 2014 **The Golem Team, RoboCup@Home 2014, Technical Report.**  
Pineda, L. , Rascon, C. , Fuentes, G. , Estrada, V. , Rodriguez, A. , Meza, I. , Ortega, H. , Reyes, M. , Peña, M. , Duran, J. , Campos, E. , Chimal, S., and Orozco, A. *DCC, IIMAS, UNAM* pp. 8.

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## Research Projects

- 2019– **Dynamic Link Prediction for Troll Activity Tracking**, *Individual Research*, supervised by Reihaneh Rabbany, Using state-of-the-art graph embedding techniques, I am approaching the problem of modelling the activity of fake accounts/Twitter trolls from a link prediction perspective. Furthermore, results may help to conclude on likely strategies for the expansion of these accounts towards a common goal. We use the *Twitter Election Integrity dataset*.
- 2020 **Online Knowledge Graph Learning**, *Team Member*, Collaborating with Nishant Mishra, Paniz Bertsch.
- 2019 **Extending Question Answering to Conversations**, *Team Leader*, Collaborating with Akshatha Arodi, Yao Jiang.
- 2019 **FakeNews Detection**, *ML Algorithm Research Engineer (?)*, Collaborating with Jackie Cheung, Reihaneh Rabbany, Meng Cao, Junghao Wang, Mila team at the *Canadian Leader's Prize Competition* for fake news detection.

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## Workshops

- 2020 **Poster speaker at LatinX in AI @ NeurIPS**, *Conference presentation*, I will present a poster at LatinX in AI workshop, The workshop's main goal is to provide a common framework for Latin American AI researchers.
- 2018 **Poster speaker at LatinX in AI @ NeurIPS**, *Conference presentation*, I presented a poster at first ever LatinX in AI workshop, held in Montréal, QC, Canada, The workshop's main goal is to provide a common framework for Latin American AI researchers.
- 2018 **Poster speaker at SOCML 2018**, *Conference presentation*, I will present a poster at the third Self-Organizing Conference on Machine Learning. It will happen at the Google offices located in Toronto, ON, Canada, The poster will mainly cover advances and challenges on meme captioning using deep neural networks.

- 2017 **Poster speaker at SOCML 2017**, *Conference presentation*, I presented a poster at the second Self-Organizing Conference on Machine Learning, held at the Google offices located in Sunnyvale, CA, USA. The poster was about my undergraduate thesis project (deep meme captioning). The conference was organized by Ian Goodfellow, The poster can be visualized [here](#).
- 2017 **Invited speaker at CoLiCo held at UNAM Facultad de Filosofía y Letras**, *Outreach talk*, I spoke about deep learning applications to NLP, from a linguistic perspective, *CoLiCo* stands for “Computational Linguistics Colloquium” and was organized by UNAM Linguistic Engineering Group. The slides are available in [https://alorozco53.github.io/talks/onto\\_memes.html](https://alorozco53.github.io/talks/onto_memes.html)

## Internships and Professional Experience

- 2021 **Deep Learning Intern at LinguAI**, *Paid Job*, Research and applied collaboration with a Montréal-based startup in the health sector. The project’s goal is to build a speech recognition solution to detect children language disorders., Sponsored by [Mila](#).
- 2020 **Data Science Intern at UEAT**, *Paid Job*, Consultant-style internship where I helped to design the company’s catering knowledge base using web ontologies and state-of-the-art graph representation learning, Sponsored by [Mitacs](#).
- 2019- **Research Student at Mila - Québec AI Institute**, *Supervised by Prof Reihaneh Rabbany*, Working on the intersection of *network science*, *NLP* and within the *graph representation learning* scope.
- 2020- **Teacher Assistant at McGill University**, *Part of the teaching staff for courses on Programming Languages and their Paradigms, Theory of Computation, and Logic and Computability*.
- 2017-2019 **Data Scientist at Mariachi IO**, *Paid Job*, I joined *Mariachi IO* to help out in the solution of several tasks that require NLP, machine learning, and image processing, I am currently building a computer vision application using classic OpenCV-based algorithms and state-of-the art deep learning tools.
- 2017-2019 **Data Science Consultant at Fractal Abogados**, *Paid Job*, *Fractal Abogados* is a startup whose purpose is to provide feasible IT (and AI) solutions into today’s Mexican (and Latin American) law system, I work as an AI consultant in Fractal’s signature project: a legal chatbot. *Max* is a Facebook Messenger based virtual assistant, powered by IBM Watson that automates the most common legal advices in Mexico.
- 2016-2018 **Teacher assistant the UNAM’s Facultad de Ciencias**, *Paid Job*, Taught [Machine Learning and Pattern Recognition](#) and [Automata and Formal Languages](#) during 2017. Taught the [Programming Languages](#) during the 2016 Spring Semester. Taught [Discrete Structures Lab](#) and [Computational Logic](#) during the 2016 Fall Semester. All courses are offered for the undergraduate curriculum, I will be teaching *Computational Logic* again this Spring 2018 semester.

- 2013-2015 **Student / researcher at UNAM's Grupo Golem**, *Extra-curricular activity*, Grupo Golem is a research group at IIMAS (Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas) whose main goal is to model the cognitive interaction between a humans and computer; all the research is unified in a service robot that competes internationally in the RoboCup@Home competition; the group's website is [this one](#), Grupo Golem's leader is [Dr Luis A. Pineda](#).
- 2012-2013 **Student / researcher at UNAM's IIMAS's Computer Science Department**, *Extra-curricular activity*, I work alongside [Dr Ivan V. Meza](#) with speech recognizers, and replicated an experiment in which a robot learns from a human teacher how to transform babblings to simple English words.

## Languages

Spanish	Mothertongue	
English	Bilingual proficiency	<i>Completely fluent (IELTS)</i>
French	Full professional proficiency	<i>Fluency mostly written (DELF B1)</i>

## Skills

- Java
- C
- MatLab
- C++
- SciPy
- Sci-kit Learn
- NLTK
- OpenCV
- L<sup>A</sup>T<sub>E</sub>X
- Microsoft Office
- CMU Sphinx voice recognizer
- Git version control system
- IBM Watson
- Keras
- Amazon AWS
- Python
- Haskell
- Prolog
- NumPy
- R
- spaCy
- Matplotlib
- PostgreSQL
- GNU Emacs
- Tensorflow
- ScraPy
- Theano
- Javascript
- Bash (Shell)
- Google Cloud

## Personal Skills

- Ability to tackle complex problems.
- Ability to abstract the most important features of a given task.
- Critical thinking.
- Ability to work under pressure
- Provide efficient programming solutions to any problem.