

Vladimir ARAUJO VÁSQUEZ

in [linkedin.com/in/vgaraujov](https://www.linkedin.com/in/vgaraujov)
☎ +56 998826217
✉ vgaraujo@uc.cl
📍 Santiago, Chile



I am an Electronics Engineer and Ph.D. student in Computer Science. My main research interest is Deep Learning for Natural Language Processing, specifically on how to extend current approaches with mechanisms inspired by human language processing. I firmly believe that the use of Artificial Intelligence will be a benefit for various aspects of society.

EDUCATION

Present 2018	Ph.D. in Engineering Sciences, PONTIFICIA UNIVERSIDAD CATÓLICA, Chile <ul style="list-style-type: none">➤ Mention : Computer Science➤ Research Title : Prediction and Integration for Natural Language Representation
2017 2015	M.Sc. in Electronics Engineering, PONTIFICIA UNIVERSIDAD JAVERIANA, Colombia <ul style="list-style-type: none">➤ Mention : Intelligent Robotics (Cum laude)➤ Thesis Title : SiREM Robotic System to Train Working Memory
2015 2009	B.Eng. in Electronics Engineering, UNIVERSIDAD POLITÉCNICA SALESIANA, Ecuador <ul style="list-style-type: none">➤ Mention : Automation (Second best graduate)➤ Thesis Title : Controlling a humanoid robot in 3D space using the kinect sensor

PROJECTS

EXPLAINABLE ARTIFICIAL INTELLIGENCE

2018 - PRESENT

 [Website](#)

This Emblematic Project, funded by the Millennium Institute Foundational Research on Data (IMFD), has the objective of developing evolved AI techniques, advancing from systems based on memorizing patterns to one based on the semantic comprehension of these patterns and the learning of abstractions or procedures that promote high level reasoning.

[Interpretability](#) [Explanability](#) [Deep Learning](#)

SiREM : ROBOTIC SYSTEM TO TRAIN WORKING MEMORY

2016 - 2017

 [PUJ Repository](#)

A robotic system was developed to give a novel way to train the working memory, expecting a better result than classic video games to improve students' cognitive abilities. It consists of a robotic platform controlled by artificial intelligence to develop a memory game. Project carried out at the Pontificia Universidad Javeriana.

[Serious Games](#) [Educational Robotics](#) [Machine Learning](#)

EXPERIENCE

Present August 2018	Researcher, MILLENNIUM INSTITUTE FOUNDATIONAL RESEARCH ON DATA (IMFD), Chile <ul style="list-style-type: none">➤ Research on topics related to fake news and social networks➤ Development of interpretable models PyTorch Python Natural Language Processing Graph Networks
Present May 2020	Lecturer, PONTIFICIA UNIVERSIDAD CATÓLICA, Chile <p>Lecturer of the AI certification program, in charge of the classes of :</p> <ul style="list-style-type: none">➤ Natural Language Processing➤ Video Analysis PyTorch Python Natural Language Processing Computer Vision
Present March 2019	Teaching Assistant, PONTIFICIA UNIVERSIDAD CATÓLICA, Chile <p>Assitant of the classes of :</p> <ul style="list-style-type: none">➤ Recommender Systems (2020-2)➤ Machine Learning (2019-2)➤ Cognitive Robotics (2019-1) Python Keras PyTorch Computer Vision Information Retrieval

Present January 2014	Co-Funder, AV ELECTRONICS, Ecuador <ul style="list-style-type: none"> > Project manager > Import manager <div>Electronics</div> <div>Management</div>
July 2018 April 2015	Lecturer, INSTITUTO TECNOLÓGICO CEMLAD, Ecuador Lecturer of the electronics technology career, in charge of : <ul style="list-style-type: none"> > Virtual and face-to-face lectures of microcontrollers, analog and digital electronics > Organization of scheduled activities <div>Electronics</div> <div>Microcontrollers</div> <div>Programming</div>
March 2015 January 2015	Laboratory Assistant, UNIVERSIDAD POLITÉCNICA SALESIANA, Ecuador Assitant at the FabLab of the University. In charge of : <ul style="list-style-type: none"> > Guide laboratory practices > Design and manufacture of printed circuit boards <div>FabLab</div> <div>PCB</div> <div>Microcontrollers</div>
December 2018 April 2014	Instructor, MASTOOSFE, Ecuador Lecturer of technical courses : <ul style="list-style-type: none"> > Introduction to programming > OOP <div>Java</div> <div>C++</div>

LANGUAGES

Spanish ● ● ● ● ●
English ● ● ● ● ○

+ FORCES

- > Hard-wroking
- > Patient
- > Automous

FUNDING AND AWARDS

- 2020 **Scholarship** to attend the International Meeting on Artificial Intelligence and its Applications (RIIAA 2020)
- 2020 **Scholarship** for attending the Lisbon Machine Learning School (LxMLS 2020)
- 2020 WiNLP's **grant** for attending ACL20
- 2020 ANID **scholarship** for doctoral studies in Chile
- 2019 **Scholarship** to attend the Latin American Meeting in Artificial Intelligence (Khipu19)
- 2019 ACM SIGCHI Gary Marsden **fund award** to attend RecSys19
- 2019 VRI **scholarship** for doctoral studies in Chile
- 2018 IMFD **scholarship** for doctoral studies in Chile
- 2017 **Scholarship** for an internship at RUND University of Russia
- 2017 Cum laude **distinction** in Master's studies
- 2017 **Distinction** awarded to the best Master's thesis
- 2015 ICETEX **scholarship** for Master's studies in Colombia
- 2015 **Award** for the second best graduate in undergraduate studies

PUBLICATIONS

- > Villa Andrés, **Vladimir Araujo**, Francisca Cattán, and Denis Parra (2020). "Interpretable Contextual Team-aware Item Recommendation : Application in Multiplayer Online Battle Arena Game". In : Proceedings of the 14 th ACM Conference on Recommender Systems. RecSys'20. Virtual, Brazil : ACM.
- > **Araujo Vladimir**, Andrés Carvallo, and Denis Parra (2020). "Adversarial Evaluation of BERT for Biomedical Named Entity Recognition". In : Proceedings of the 2020 Workshop on Widening NLP. Association for Computational Linguistics.
- > Cerda-Mardini Patricio, **Vladimir Araujo**, and Alvaro Soto (2020). "Translating Natural Language Instructions for Behavioral Robot Navigation with a Multi-Head Attention Mechanism". In : Proceedings of the 2020 Workshop on Widening NLP. Association for Computational Linguistics
- > Aspillaga Carlos, Andrés Carvallo, and **Vladimir Araujo** (2020). "Stress Test Evaluation of Transformer-based Models in Natural Language Understanding Tasks". In : Proceedings of The 12th Language Resources and Evaluation Conference. Marseille, France : European Language Resources Association, pp.1882–1894.
- > **Araujo Vladimir**, Felipe Rios, and Denis Parra (2019). "Data Mining for Item Recommendation in MOBA Games". In : Proceedings of the 13 th ACM Conference on Recommender Systems. RecSys'19. Copenhagen, Denmark : ACM, pp.393–397.
- > **Araujo Vladimir**, Diego Mendez, and Alejandra Gonzalez (2019). "A Novel Approach to Working Memory Training Based on Robotics and AI" in : Information 10.11,p.350.
- > **Araujo Vladimir**, Alejandra Gonzalez, and Diego Mendez (2018). "Dynamic Difficulty Adjustment for a Memory Game". In : Communications in Computer and Information Science. Springer International Publishing

REFERENCES

Prof. Álvaro Soto

Pontificia Universidad Católica,

@ asoto@ing.puc.cl

☎ 2 2354 4440

Prof. Alejandra González

Pontificia Universidad Javeriana,

@ agonzalez@javeriana.edu.co

☎ 3208320 Ext. 5323

Prof. Lilia Gutiérrez

CEMLAD,

@ rectorado@cemlad.edu.ec

☎ 02 603 7825