

David Alejandro Trejo Pizzo

NATIONALITY: ARGENTINA - DATE OF BIRTH: 27/04/91

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Summary

I am a passionate, entrepreneur and researcher with extensive accomplishments in the realms of energy, artificial intelligence, and nanotechnology. Boasting a strong educational background and a proven record of academic excellence, I have consistently demonstrated my enthusiasm for pushing the boundaries of knowledge and driving innovation. As I continue to pursue new opportunities and challenges, I am eager to apply my expertise and passion to help shape the future of these cutting-edge disciplines.

Education

Singularity University

STARTUP INCUBATOR PROGRAM

California, United States

Apr 2018 - May 2018

MIT

HARDWARE FOR ARTIFICIAL INTELLIGENCE

Cambridge, United States

Sep 2017 - Nov 2017

Universidad de Buenos Aires, School of Exact Sciences

PHD. IN PHYSICS (HARDWARE FOR AI, NOT FINISHED)

Buenos Aires, Argentina

Mar 2016 - Jun 2017

UCEMA

MSc. IN ECONOMICS

Buenos Aires, Argentina

Mar 2016 - Dec 2018

Universidad de Palermo, School of Engineering

B.Sc. IN ELECTRICAL ENGINEERING

Buenos Aires, Argentina

Mar 2010 - Dec 2015

Experience

Singularity University Colombia

AI LECTURER

- Lecturer on Artificial Intelligence topics.

Bogota, Colombia

Mar 2020 - Present

Department of Exact Sciences, Universidad CAECE

ASSOCIATE PROFESSOR

- Associate Professor of Electronics, Nanoelectronics and Artificial Intelligence
- During the Covid-19 pandemic, I engaged my students in designing open-source hardware to address issues such as the lack of ventilators and mask designs:
- Ventilator project: <http://bit.ly/43wkPYL>

Buenos Aires, Argentina

Mar 2019 - Present

Innovation Department, Buenos Aires City Government

INNOVATION TECHNOLOGY MANAGER

- Led multiple digital transformation projects, including a WhatsApp chatbot for COVID-19, a vaccine allocation algorithm, and the public health system's digital transformation plan.
- Participated in designing the first Artificial Intelligence plan for Buenos Aires City. Proposed the creation of Argentina's first Artificial Intelligence Government Laboratory in partnership with INTEL. <https://buenosaires.gob.ar/jefaturadegabinete/innovacion/ba-laboratorio-ia>
- Project IATOS: Developed an AI system using neural networks to identify patterns in cough audio, improving the coronavirus testing strategy. <https://buenosaires.gob.ar/jefaturadegabinete/innovacion/plan-de-inteligencia-artificial/iatos>
- Project CardiolA: Developed an AI system with Amazon Comprehend to extract cardiovascular risk factors from Electronic Health Records (EHR) in the public health system. This system is currently used in all Buenos Aires hospitals and has improved early detection of cardiovascular problems by 70%.

Buenos Aires, Argentina

Apr 2020 - Jun 2022

NYDRO ENERGY FZ-LLC

Argentina and UAE

CEO & FOUNDER

Sep 2017 - Feb 2020

- Startup focused on decentralized power generation and AI to enhance the optimal operation of power grids.
- Nydro Energy was recognized as one of the top 100 innovative companies at the Startup Energy Transition Awards in 2019.
- Served as CEO until Feb 2020 and remained on the company board until it was acquired.
- Before being acquired by a global utility, Nydro had operations in UAE, Bahrain, and LATAM with 48 employees, 6 patents and reaching a net revenue of 26 million USD in 2021.

School of Engineering, Universidad de Palermo

Buenos Aires, Argentina

ASSISTANT PROFESSOR

Mar 2016 - Dec 2017

- Taught Semiconductor Physics and Analog Circuits 1
- Conducted research on wavelet denoising techniques for speech classification.

National Nuclear Energy Commission

Buenos Aires, Argentina

UNDERGRADUATE STUDENT RESEARCHER

Feb 2015 - Dec 2015

- I was accepted for a joint internship between the Department of Condensed Matter Physics at the National Atomic Energy Agency and the Low Temperatures Lab of the University of Buenos Aires, focusing on conductive mechanisms in metal oxide junctions and Resistive Switching. Contributed to the development of a ResistiveRAM memory device currently used in Satellogic satellites.
- <http://www.unsam.edu.ar/escuelas/ciencia/labosat/>
- My research led to the creation of chips with hundreds and even thousands of memristors, used to create physical neurons. These chips were used to speed up neural network calculations. This development led to multiple awards, including the MIT Innovator Under 35 and the National award for the best young researcher from the Argentine Congress, both in 2019.

Innovation Lab, Buenos Aires City Government

Buenos Aires, Argentina

JR. ENGINEER

Aug 2013 - Dec 2014

- Founding member of "El Lab," the first civic innovation lab in Latin America. Our purpose was to use and gather data for evidence-based policymaking and create an open space for civic innovation. <https://buenosaires.gob.ar/noticias/el-laboratorio-de-la-ciudad>
- I proposed and led the "Sensors Lab", an initiative that has installed over 5,000 sensors in the city and connected another 10,000 private sensors to a common platform for data visualization and decision-making. <https://buenosaires.gob.ar/innovacion/gobiernoabierto/tecnologia-y-sensorizacion>

AI Group, Universidad de Palermo

Buenos Aires, Argentina

UNDERGRADUATE STUDENT RESEARCHER

Aug 2010 - Jun 2013

- I joined the lab as a Junior researcher to work on controlling autonomous mobile robots with artificial intelligence.
- Implemented neural networks for pattern recognition and a SLAM protocol for mobile robots.
- I published five papers on control techniques for autonomous mobile robots.

Awards

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|------|---|-----------------|
| 2021 | AI Global Impact Festival country winner , INTEL Corp. | San Jose, US |
| 2020 | MIT Technology Review Innovator Under 35 LATAM 2020 , MIT TR | Boston, US |
| 2019 | Young Global Changer, class of 2019 , Global Solutions Summit | Berlin, Germany |
| 2018 | Senate of Argentina Honorable Mention for Scientific Contributions , https://goo.gl/8UGQoG | BA, Argentina |
| 2013 | Promising young researchers , Minister of Science, Argentine Republic | BA, Argentina |
| 2012 | Special mention , Banco Santander-UP National Prize for Research | BA, Argentina |

Languages

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|-------------------|---------|
| Spanish , | Native |
| English , | C2 |
| Croatian , | B2 |
| German , | B2 |
| Dutch , | B1 |
| French , | A2 |
| Chinese , | Level 1 |