

Almendra Paz DEL MORAL LOBOS

Data Scientist - MSc in Astrophysics student | Pontifical Catholic University of Chile

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📍 Guayaquil 536, Santiago Centro

📅 Born in 23 de Octubre de 1996, Santiago, Chile

HABILITIES

Programming languages	Python, R, SQL, supervised and unsupervised machine learning algorithms, aleatory methods and problem resolution using advanced calculus, Matlab
Software	Jupyter, Rstudio, Visual Studio Code, Oracle, Topcat, DBeaver, QFitsView, SAOImage DS9
AWS	S3, EC2, Athena, SageMaker
Operative systems	Ubuntu, Linux, MacOS, Windows
Others	Git, LaTeX , Microsoft Office, Jira

ACADEMIC AND PROFESSIONAL EXPERIENCE

Present June 2021	Data Scientist VP Transformación y Soporte al Negocio, ENTEL, Creation of risk ML models for business and individuals financing when they enter as clients of the company, exploratory analysis, creation of strategies and development of models with the purpose of avoiding fraud. Data Science Teamwork
Present March 2022	Directed Research Institute of Astrophysics, PONTIFICAL CATHOLIC UNIVERSITY OF CHILE, Research in the area of lithium depletion in low mass stars under the tutelage of Julio Chanamé. Statistics and big data management are used. Python Statistics big data
December 2020 August 2020	Assistant Teacher Institute of Astrophysics, PONTIFICAL CATHOLIC UNIVERSITY OF CHILE, <ul style="list-style-type: none">➢ Assistant teacher in 2 different occasions :<ul style="list-style-type: none">➢ August 2020 - December 2020 : A walk through the Universe➢ August 2020 - December 2020 : Space, Time and Universe➢ Consists of reviewing tests, exercises, and exams, in addition to taking these. Realization and preparation of auxiliary classes. University course Massive course
December 2019 August 2019	Directed research Physical Sciences and Mathematics Faculty, UNIVERSITY OF CHILE, Research course under the tutelage of Sebastián Lopez. The research deals with data from ESO VLT telescope, specifically, they are obtained from MUSE and the data is of the IFU (Integral Field Unit) type. Statistical tools, big data management and predictive models were used. Gravitational Arcs MUSE distant galaxies Research Galaxies Python QFitsView SAOImage DS9 Big Data
August 2020 June 2018	School outreach Monitor Communication area, Physical Sciences and Mathematics Faculty, UNIVERSITY OF CHILE, <ul style="list-style-type: none">➢ Development of institutional talks and guided tours of the Faculty.➢ Participation in different career fairs (Santiago and regions).➢ Organization of the 4th Festival of Engineering and Sciences : Coordination Team of Schools. The festival had an attendance of 16.000 persons.➢ Development and participation of Online outreach due to COVID-19. Scientific outreach Vocational talks Secondary School Massive events
Julio 2019 March 2017	Assistant Teacher Physical Sciences and Mathematics Faculty, UNIVERSITY OF CHILE, <ul style="list-style-type: none">➢ Assistant teacher in 4 different occasions :<ul style="list-style-type: none">➢ March 2019 - July 2019 : FI2002 Electromagnetism. (DFI)➢ July 2018 - December 2018 : FI1002 Newtonian Systems. (DFI)➢ July 2017 - December 2017 : MA2601 Ordinary differential equations. (DIM)➢ March 2017 - July 2017 : MA2601 Ordinary differential equations. (DIM)➢ It consisted of reviewing tests, exercises, and exams, in addition to taking these (DFI- DIM). Realization and preparation of auxiliary classes (DFI). The courses were finished with high grades from the students and good feedback. University course Massive course Physics department Mathematical engineering department

Enero 2018	Professional practice Astronomy Department, UNIVERSITY OF CHILE,
Enero 2018	Professional practice of the Bachelor degree, which consisted of the theme "Co-evolution between super massive black holes and star formation" under the tutelage of Professor Antonios Katsianis. Numerical methods and programming was strongly required for this grade of 6.2 (1 to 7 scale) <div>Python</div> <div>AGN</div> <div>SFR</div> <div>SMBH</div> <div>Hydrodynamic simulations</div> <div>EAGLE</div>
2017	Private Professor, SACATEUN7,
2015	Carrying out private classes in Mathematics, Physics and Chemistry for high school and elementary school students. <div>Secondary School</div> <div>Primary School</div>

WORK EXPERIENCE IN OTHER AREAS AND EXTRACURRICULAR ACTIVITIES

PARTICIPATION ON "PROGRAMA DE LIDERAZGO FEMENINO EN STEM" 2021

Departamento Provincial de Educación Limarí, Ministerio de Educación, Gobierno de Chile
Program promoted by the Ministry of Education of Chile with a focus on guiding and guiding students interested in STEM areas of schools in the Punitaqui commune, IV region.

Scientific Communication

Secondary School

Teamwork

PARTICIPATION ON "MUJERES PODEROSAS" PROGRAM 2020

<https://woomup.cl/>

Program in which students from municipal schools who are interested in STEM careers are guided and mentored.

Scientific Divuligation

Mentoring

MODEL ON WE LOVE MODELS AGENCY 2017 - PRESENT

<http://www.welovemodels.com>

Under the tutelage of one of the two most important modeling agencies nationwide, I have managed to develop in different jobs with respect to what can be performed in the world of fashion, such as appearances in magazines, starring in commercials, music videos, fashion campaigns, fashion shows, workshops, fashion editorials, among others. Some of the clients I have worked with are : Vogue Latinoamérica, Revista Ya (appearing on their cover 2 times), Ripley, Paris, LG (Worldwide) Falabella Web, Hites, Pichara, ZooYork, Jumbo, Marika Vera, Marinoddo, T.H.C, The Line, Ford(Latam), Taco Bell(North America), Yanbal Unique (Perú), Lupe Gajardo, Davines, TIGI, LEONIDAS, Vogue Italia Web and a wide etcetera. Also, during my trajectory I have acquired a broad knowledge about social media, which have result on being sponsored by different brands on Instagram such as Pepsi, Garnier, Urban Decay, Bullboxer, Jean Paul Gaultier and others.

Vogue Latinoamérica

Versatility

Adaptation

Teamwork

PARTICIPATION ON "PEQUEÑAS GRANDES ESTRELLAS" OUTREACH PROJECT 2020

<http://pequenasgrandesestrellas.cl/>

Participation on astronomy divulgation online proyect, in which questions related to astronomy made by the general public are answered.

Astronomic outreach

General Public

SCHOLARSHIP

2020 - Present	MSc in Astrophysics Pontifical Catholic University of Chile
2017 - 2019	Bachelor of Science in Astronomy University of Chile
2015 - 2016	Common Plan of the Physical Sciences and Mathematics Faculty University of Chile
2013 - 2014	Secondary Education Geronimo Rendic School, La Serena. > Academic Excellence. Participation on the student council 2014. 3° regional place on Physics Olympics in 4th grade category. Best PSU pondered score of the class.
2021	Coursera courses > Data Driven Astronomy > Applied Machine Learning in Python
2021-2022	DataCamp courses > Case Study : Exploratory Data Analysis in R > Exploratory Data Analysis in R > Data Manipulation with dplyr > Preprocessing for Machine Learning in Python > Introduction to PySpark

LANGUAGES

Spanish ● ● ● ● ●
English ● ● ● ● ○

“ REFEREES

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+ STRENGTHS

- > Independent
- > Versatile
- > Resilient