# Juan Paredes

DATA SCIENTIST · DOCTORAL RESEARCHER

Barcelona, Spain

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### Work Experience

#### Universitat Politecnica de Catalunya

Doctoral Researcher

- Developed machine learning models to improve the air quality monitoring performed by Generalitat de Catalunya.
- Implemented a machine learning pipeline to enhance data quality and reduce the cost of urban air quality monitoring.
- Collaborating with team members to provide expert consultation for implementing digital twins in monitored environments.

### Pontificia Universidad Catolica de Chile

Research Assistant

- Implemented radiomics based machine learning models to reduce biopsy procedures in collaboration with UC-Christus hospital.
- Conducted mathematical modelling of biological tissue to improve cancer treatments.

### Skills \_

Programming LanguagesPython, SQL, C++, Fortran, MatLabSoftwareExcel, Word, Powerpoint, LaTeXToolsBash, Git, DockerLanguagesSpanish, English

## Education

### Universitat Politècnica de Catalunya

Ph.D. candidate in Computer Architecture

• Working on Data-Driven techniques for indirect monitoring of signals and digital twins integration.

#### Pontificia Universidad Catolica de Chile

M.Sc. in Medical Physics

• Experience in data analysis and image processing.

#### Pontificia Universidad Catolica de Chile

B.Sc. IN ASTRONOMY

• Experience in mathematical modelling.

Barcelona, Spain

Sep. 2021 - Present

Santiago, Chile

Mar. 2017 - Jul. 2021

Barcelona, Spain Sep. 2021 - Present

Santiago, Chile Mar. 2018 - Mar. 2020

Santiago, Chile Mar. 2011 - Aug. 2016

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