

# Isidro Jara

📍 Basel, Switzerland    ✉ isidro.jara17@gmail.com    ☎ +41 783 116 444

in isidro-jara    🔗 isidrojara.github.io

## Professional Experience

---

### Data Engineer & Data Warehouse Expert

*Idorsia Pharmaceuticals Ltd*

*Allschwil, Switzerland*

*Jan 2024 – Present*

- Developed and maintain +20 Power BI visual reports for the MSLs team, CRM team, and Global Medical Affairs department. Owner and person of contact of these reports.
- Assisting local and global teams in identifying potential KPIs and uncovering valuable insights from data to enhance management decision-making.
- Integrating backend raw data with frontend visuals to support the commercial data warehouse and analytics platform.
- Using MS Power BI for the visual development and deployment of reports, and SQL and Amazon Redshift for data ingestion, structuring and retrieval.
- Designing and maintaining a reliable and cost-effective data strategy for the commercial data warehouse and analytics platform, ensuring it serves as a single source of truth.

### Data Engineer & Business Analyst

*Hoffmann-La Roche*

*Basel, Switzerland*

*Jan 2022 – Dec 2023*

- Responsible for gathering, prioritizing and documenting product mapping requirements, including functional requirements, non functional requirements, interactions and flows.
- Responsible for mastering current products and supporting infrastructure thereby capturing the difference between releases as the products evolve.
- Analyzing data for reporting and managing metrics across data from multifunctional teams for insights discovery. Software tools used: Python, SQL, Tableau, Microsoft Excel.
- Managing Jira software for Agile project management, issue tracking and traceability of errors and bugs. Exporting data from several databases for reporting and visualization.

### Data Engineer

*Hoffmann-La Roche*

*Madrid, Spain*

*Sep 2020 – Jan 2022*

- Data Engineer for the Global R&D Data team. Definition of Source to Target Mapping, Reference Data Management, Integration Rules and migration files for MDM Customer data in Swiss country. Data Integration owner of medical Swiss data (HCOs and HCPs) from Salesforce CRM, Coordination across Swiss affiliate, Global Data team and External Data Provider.
- Visualization developer for the Core Reports team: Analysis of raw data, integration across multiple databases and development of Market Performance, Medical Activity and Indonesia Sales Forecasting Tableau dashboard projects.
- Data Engineer for the Graph DB discovery project: Data management approaches with relational and graph databases (PostgreSQL, Neo4j).

### Data Engineer

*NTT Data*

*Madrid, Spain*

*Oct 2018 – Sep 2020*

- Defining and implementing data architectures. Tools used: Python as backend (libraries: numpy, pandas, matplotlib, BeautifulSoup, etc.); Apache Spark, Hive, SQL, and Tableau for Big Data analysis; Database technologies: Neo4j, PostgreSQL, MySQL; Web frontend technologies for product visualization; Docker and Amazon Web Services (AWS) for cloud data infrastructure deployment; Implementation of computational algorithms (Monte Carlo methods, etc.); Git for control version.

### Data Engineer

*Sky Italia*

*Milano, Italy*

*Oct 2016 – Oct 2018*

- Working in Business Intelligence (BI) and Extract, Transform, Load (ETL) dataflows. Create and maintain data pipelines. Managing Data Warehouse for storing and processing information.

- Tools used: SQL (Oracle DB, PostgreSQL), Informatica PowerCenter software. -
- Main teacher of the "SQL fundamentals" course for Indra Academy (Indra's recruitment and training program), in Italian, and later coordinator of the hired students.

## Academic background

---

### PhD in Artificial Intelligence

*Oct 2024 – Jun 2028  
(planned)*

*International University of La Rioja*

- Explainable Machine Learning in Complex Medical Cases: Unveiling the Long-Term Consequences of Preeclampsia through Artificial Intelligence.

### Master's Degree in Artificial Intelligence

*Feb 2023 – Jun 2024*

*International University of La Rioja*

- Natural Language Processing, Machine Learning and Deep Learning technologies, Planning and development algorithms and Computer vision. Master Thesis: Explainable NLP for short answer scoring system.
- Overall grade: 9.1/10.

### Master's Degree in Cybersecurity and Information Security

*Mar 2016 – Dec 2019*

*University of Castilla-La Mancha*

- Master Thesis: Implementation of a Machine Learning clustering algorithm for attack detection on web applications.

### Master's Degree in Telecommunications Engineering

*Sep 2014 – Jul 2016*

*Technical University of Madrid*

- Second year: Erasmus program at Telecom ParisTech University (Paris, France).

### Degree in Technology and Telecommunication Services Engineering

*Sep 2009 – Jul 2014*

*Technical University of Madrid*

### Degree in Mathematics

*Sep 2016 – Jul 2027  
(planned)*

*National University of Distance Education*

- ECTs achieved so far: 141 / 240.

### Degree in Philosophy

*Jan 2017 – Jul 2026  
(planned)*

*National University of Distance Education*

- ECTs achieved so far: 156 / 240.

## IT Certifications

---

- Certified Ethical Hacker (CEH) - *Sep 2020*
- Cisco CCNA Security - *Jan 2020*
- Neo4j Certified Professional - *Dec 2018*
- Scrum Developer Certification and Scrum Fundamentals Certified - *Oct 2018*
- Prince2 Foundation - *Jul 2018*
- PowerCenter Data Integration 10: Developer, Specialist Certification - *Mar 2018*
- Oracle Database 12c: SQL Fundamentals - *Dec 2017*
- Google Analytics Certification - *Jul 2017*

## Languages

---

**English:** Full professional proficiency (C1).

**Italian:** Full professional proficiency (B2).

**French:** Limited working proficiency (A2).

**Spanish:** Mother tongue.