

# Diego Quintana Valenzuela



## Bio

I am an Electrical Engineer and a Computer and Data Science enthusiast. I am curious and creative, and I am most motivated when innovating and trying out new things. I am driven by values, and I value human relationships. I learn best by doing and sharing.

I'm from [Osorno](#), [Chile](#). You can reach me at [atdaquintanav@gmail.com](mailto:atdaquintanav@gmail.com).

## Education

### Msc, Computer Science and Engineering (Expected)

- *Master in Innovation and Research in Informatics* with specialization in Data Science (MIRI-DS) at **Universidad Politécnica de Catalunya (UPC)**, Barcelona.
- From September 2019 to September 2021
- Fully sponsored by a scholarship from the Chilean Commission for Scientific and Technological Research (Conicyt).

### Big Data Diploma

- A postgraduate Diploma (144 hrs) on Big Data at the **Pontificia Universidad Católica de Chile (PUC)**, Santiago, Chile.
- During the second half of 2017.

### Bsc, Electrical Engineering

BSc in Electrical Engineering (Six years degree), with specialization in Power Systems at **Universidad de la Frontera (UFRO)** in Temuco, Chile,

- Final grade 6.2 of 7.0
- Final project on "*Digital Substation: State of the art technologies and development of test modules using ABB devices*"
- From March 2008 to March 2016.

### Academic Exchange

- Academic exchange in the **Ruhr-Universität Bochum (RUB)** at Bochum (NRW), Germany.
- Fully sponsored by a scholarship granted by the German Academic Exchange Service ([DAAD](#))
- From August 2014 to August 2015.

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## Work Experience

### Software and Data Engineer at CIAE, Universidad de Chile (Current position)

- From November 2017 to September 2019 (~1.5 years).
- Backend python developer and data engineer, with experience in public and private research projects related to education and social development.
- Developed extensible python ETL pipelines for cleaning and validating data obtained from the public sector in Chile.
- Participated as a teacher assistant in a training course on "*Data Science and Public Analytics*" for people of the *Chilean Department of Social Development* (English for *Ministerio de Desarrollo Social*)
- Designed and developed a web application to manage visualizations related to the Public Education Sector in Chile, using [Flask](#), [Docker](#) and [create-react-app](#)

Read more about the *Advanced Education Research Center* (english for *Centro Avanzado de Investigación en Educación de la Universidad de Chile*) in [www.ciae.uchile.cl](http://www.ciae.uchile.cl) ([spanish](#))

## IT Consultant at AquaIntelligence

- From July 2017 to October 2017 (~4 Months, part-time job)
- Research on sensor technologies, *Internet of Things* and machine learning applications related to the aquaculture industry
- Developed prototypes of database schemas
- Government funded (CORFO Chile) startup project

## Project Engineer at ABB Chile

- From June 2015 to June 2017 (two years)
- Substation Control, Protection and Automation Engineer in the *Power Grids - Grid Automation* division
- Acted as a technical lead in +10 substation automation projects ranging from simple to mid complexity across Chile.
- Develop project schedules under constraints, interacting with all the units involved.
- Provided technical assistance to the Supply Chain and the Contract Management areas.
- Acted as a technical specialist of the ABB's *Digital Substations* and *IEC 61850* portfolio in Chile, supporting sales and performing as a speaker in conferences and training courses.
- Led projects that required delegating tasks and managing small teams from other countries within ABB.
- Speaker in the *X Jornadas Técnicas ABB* (X ABB Technical Conferences), about Digital Substations
- Winner of the "most innovative project" at company level *Hackathon* held worldwide in ABB, using Arduino and ESP8266 microcontrollers

Read more about ABB in [www.abb.cl](http://www.abb.cl)

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## Tools, Skills and Programming Languages

- I'm comfortable using **Debian** based **Linux** distros, and prefer using shell commands over GUIs built on top of them.
  - I'm proficient with **Python 3**. You can check my results from a *PluralSight* python assessment I took in 2017, which is on my *StackOverflow* profile. I've improved since then.
  - I have experience with packages like *Flask*, *SQLAlchemy*, *Alembic*, *Click*, *pytest*, *pandas*, *numpy*, *scikit-learn*, among others.
  - I'm fairly productive with **git**. You can check my results in the assesment available at my *LinkedIn Profile*.
  - I prefer using **Docker**, **PostgreSQL** and **nginx** in my personal projects.
  - I have little experience managing Azure VMs, and Amazon EC2 instances with *docker-machine*.
  - I have experience (and I like) **teaching**.
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## Human languages

- Spanish (Native)
  - English C1 (IELTS Academic certification, 2018)
  - German B2/C1 (Test DaF certification, 2014)
  - Catalá B1
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## Professional preferences

I would like to contribute to solutions in one or more of these areas, with a focus on applications for the Social Good:

- Smart Grids and Smart Cities
- Network Science and Distributed Applications
- Machine Learning and Artificial Intelligence
- Data-Intensive Applications

I wish to get better at doing applied research and possibly, to develop an academic path from there. I ~~wil~~*ladly* consider positions that encourage this on their career paths.

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