

# Gabriel Rudloff Barison

Barcelona, Spain | +34658376653 | gabriel.rudloff@gmail.com | [linkedin.com/in/gabriel-rudloff](https://www.linkedin.com/in/gabriel-rudloff)

## WORK EXPERIENCE

### Concentrix

**Barcelona, Spain**

*Google Cloud Technical Solutions Representative - Big Data & AI*

*Oct 2023 - Present*

- Deployed batch inference and training pipelines in kubeflow for automatically detecting cases that need special attention helping to act proactively and improve user experience.
- Act as the primary technical solutions contact for Google Cloud's Big Data & AI/ML products, specializing in monitoring, reproducing, and troubleshooting faulty architectures.
- Provide hands-on assistance with GCP services: Vertex AI (Pipelines, Models, Custom training, AutoML, Gemini, Workbench), Dialogflow, BigQuery, Composer (Managed Airflow), Pub/Sub, Dataproc (Managed Spark), Dataflow (Managed Beam) and others.
- Advocate for and negotiate client interest to shape and improve the products towards user requirements.
- Manage a high-volume caseload of 15-22 cases. Thrive in a high-stakes, dynamic environment.

### AC3E

**Valparaiso, Chile**

*Research Assistant*

*Apr 2023 - Jul 2023*

- Research on earthquake detection with fiber optic distributed acoustic sensing (DAS).
- Investigated the prospects of using Deep Learning for earthquake early warning systems and developed tools on the frequency-wavenumber domain.

### Inria

**Lille, France**

*Software Engineer*

*Jan 2020 - Apr 2020*

- Developed metric-learn, a Python package that forms part of scikit-learn contributions package.
- The package implements algorithms that implicitly obtain a space transformation where the Euclidean distance is proportional to the semantic relation between pairs.
- Contributed through git pull requests, with my main contribution being the implementation of SCML, an innovation from the research group.

### Kauel

**Santiago, Chile**

*Development Engineer*

*Jan 2019- Apr 2019*

- Contributed to key projects and put into practice my skills in IoT and AI.
- Worked on designing and developing systems, interfacing with clients, and delivering proof of concept demos.

### Universidad Técnica Federico Santa María

**Valparaiso, Chile**

*Teaching Assistant*

*Jan 2017 - Dec 2017*

- Led weekly reinforcement in two classes, namely Probability & Stochastic Processes and Linear Algebra & Calculus.

## EDUCATION

### Universidad Técnica Federico Santa María

**Valparaiso, Chile**

*M.S. IN ELECTRONIC ENGINEERING*

*Graduation Date: 2023*

- Mention in Telecommunications and Signal Processing.
- Researched the application of Artificial intelligence in the context of fiber optic sensors. Specifically, designing and developing a CNN-based autoencoder solution written in Pytorch for Spectral-overlapped WDM in the context of FBGs.

### Universidad Técnica Federico Santa María

**Valparaiso, Chile**

*B.S. IN ELECTRONIC ENGINEERING*

*Graduation Date: 2020*

- Mention in Computer Science.

## PUBLICATIONS

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Gabriel Rudloff and Marcelo A. Soto (2023). “Peak detection of spectrally-overlapped fibre Bragg gratings using an autoencoder convolutional neural network”. In: European Workshop on Optical Fibre Sensors (EWOFS 2023). doi: 10.1117/12.2679924.

Gabriel Rudloff and Marcelo A. Soto (2024). “Multipeak Wavelength Detection of Spectrally Overlapped Fiber Bragg Grating Sensors Through a CNN-Based Autoencoder”. In: IEEE Sensors Journal 24.13, pp. 20674–20687. doi: 10.1109/JSEN.2024.3400819.

## CERTIFICATES

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### Google Cloud

*Professional Machine Learning Engineer*

*Aug 2024*

### Google Cloud

*Associate Cloud Engineer Certification*

*Jun 2024*

### Cambridge

*First Certificate of English (FCE) level B2*

*Dec 2013*

## SKILLS & INTERESTS

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**Programming languages:** Python, SQL, BASH, C/C++, Matlab, Assembly, Java, Verilog, LATEX, HTML

**Frameworks & Libraries:** Kubeflow, Airflow, Git, Numpy, Pytorch, Tensorflow, Pandas, Sklearn, XGBoost, Matplotlib, Seaborn, PySpark, Pytest, OpenCV

**Languages:** Spanish (Native), English (Full professional proficiency)

**Hobbies:** Guitar, Boulderling

## CONTACT INFO

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**LinkedIn:** [linkedin.com/in/gabriel-rudloff](https://www.linkedin.com/in/gabriel-rudloff)

**Webpage:** [grudloff.github.io](https://grudloff.github.io)

**Github:** [github.com/grudloff](https://github.com/grudloff)

**E-mail:** [gabriel.rudloff@gmail.com](mailto:gabriel.rudloff@gmail.com)

**Phone:** +34658376653

**Address:** Barcelona, Spain