

# MATIAS QUINTANA

DATA SCIENCE RESEARCH FELLOW AND PROJECT MANAGER

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## SUMMARY

Strong interest in developing machine learning solutions, particularly in unsupervised learning, time-series anomaly detection, computer vision, and internet of things. Experienced in leading international teams as well as private and government stakeholder management.

## EXPERIENCE

**Postdoctoral Researcher & Module Coordinator** *Singapore-ETH Centre, ETH Zürich*

Apr 2023 – Present

- Led and managed team of 6 researchers (Postdocs, Ph.D. students, software developers) across Singapore and Zurich on an SGD1M project.
- Performed deep learning research for smart cities applications.
- Collaborated with government agencies and industry partners for AI-based solutions at the urban scale.

**Postdoctoral Research Fellow** *National University of Singapore (NUS)*

Aug 2022 – Mar 2023

- Led and managed research projects in machine learning while mentoring 1 M.Sc and 3 Ph.D. students.
- Taught Data Science and AI graduate and undergraduate modules.
- Gave workshops to local and international students and research groups.

**Graduate Research Assistant** *National University of Singapore (NUS)*

Aug 2018 – Aug 2022

- Performed unsupervised and semi-supervised learning research on Building Energy data, while mentoring 11 B.Sc and 1 M.Sc. students.
- Published 26 peer-reviewed papers and presented at intl. conferences
- Created content and assignments for Data Science MOOC (Finalist Innovation in Online Teaching)

**Firmware & Mobile Developer** *VIT Initiative, LLC*

Dec 2017 – Jun 2018

- Designed and pitched wearable product at clients' site and funding events.
- Designed and developed mobile application for wearable products.

**Graduate Research Assistant** *Carnegie Mellon University (CMU)*

Apr 2017 – Jun 2018

- Collaborated in Government funded project about Building Energy Efficiency.
- Designed, built, and programmed an AC waveform power meter.

## ACHIEVEMENTS

- **Singapore-ETH Center** | Organised ML and Cloud Computing workshops
- **Office of Student Affairs, NUS** | Resident Assistant and Secretary
- **Latino Graduate Student Association, CMU** | President

## EDUCATION

**Ph.D. Engineering**

*National University of Singapore (NUS)*

Aug 2018 – Nov 2022

**Master of Information Systems Management**

*Carnegie Mellon University (CMU)*

Aug 2015 – Dec 2016

**BSc. Electronic Engineering**

*Pontifical Catholic University of Peru*

Mar 2009 – Jul 2014

## PROGRAMMING

Python

Bash

SQL

JAVA

R

MATLAB

## TOOLS

Git

AWS

MLOps

Hardware prototyping

## LANGUAGES

Spanish

English

French (Basic)

Mandarin (Basic)

## HOBBIES

Weightlifting

Running

Salsa and bachata dancing

Playing string instruments

Photography