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 graph learning. Experienced in leading international teams as well as private and government stakeholder management.

EXPERIENCE

Postdoctoral Research Fellow and Module Coordinator *Singapore-ETH Centre*

Apr 2023 – Present

- Led and managed team of 6 researchers across Singapore and Zurich.
- 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.
- 26 peer-reviewed papers published where 10 are first authored.
- 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

- **Science Outreach Team, NUS** | Selected presenter
- **Office of Student Affairs, NUS** | Resident Assistant and Secretary
- **Internet of Things Club, CMU** | Co-founder and Technical Director
- **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

Arduino

Raspberry Pi

LANGUAGES

Spanish

English

French (Basic)

Mandarin (Basic)

HOBBIES

Weightlifting

Playing string instruments

Running

Photography