MATIAS QUINTANA

DATA SCIENCE RESEARCH FELLOW

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SUMMARY

Strong interest in developing machine learning solutions, particularly in time-series anomaly detection, agent-based modeling, and recommender systems.

EXPERIENCE

Postdoctoral Research Fellow *National University of Singapore*

Aug 2022 – Present

- Led research group projects in machine learning, computer vision, and agent-based modeling, while mentoring 1 M.Sc and 3 Ph.D. students.
- Taught Data Science and AI graduate and undergraduate modules.

Graduate Research Assistant *National University of Singapore*

Aug 2018 – Aug 2022

- Performed unsupervised and semi-supervised learning research on Building Energy data, while mentoring 9 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*

Apr 2017 – Jun 2018

- Collaborated in Government funded project about Building Energy Efficiency.
- Designed and programmed an AC waveform power meter based on an Atmega328p for the Raspberry Pi.

Technology Consultant *Banking Commission of Marshall Islands*

May 2016 – Jul 2016

- Assessed and improved technology infrastructure and information management stack.
- Designed and implemented data collection and analysis solution for the Financial Intelligence Division.

ACHIEVEMENTS

- **Global Young Scientist Summit (GYSS), NRF** | Selected participant
- **Science Outreach Team, CDE-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
Aug 2018 – Oct 2022

Master of Information Systems Management
Carnegie Mellon University
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