

# RENZO P. ALPORHA

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A dedicated and well-organized individual seeking opportunities to apply and expand my knowledge in a challenging and growth-oriented environment

## SKILLS

### *Technical*

- **Data Management:** Proficient in **Microsoft Excel, Python, MATLAB, SQL, Tableau**, and **Power BI** for data analysis and visualization.
- **Technology Proficiency:** Skilled in utilizing modern technologies, including laptops, smartphones, and software applications.
- **Problem-Solving:** Strong analytical and troubleshooting skills in technical environments.
- **Adaptability:** Quick learner with the ability to master new software and tools efficiently.

### *Communication and Personal Relations*

- Strong rapport-building skills with a friendly and professional demeanor.
- Empathetic and flexible, skilled at managing challenging personalities and situations.
- Fluent in English and Filipino.

## ACHIEVEMENTS

**President's Lister (5th place) 4Q AY2022-2023**  
**Philippine Space Agency chosen Proposal for Japan Aerospace Exploration Agency (JAXA)'s Asian Try Zero-G 2023**

## EDUCATION

**BS Physics (2021 - Present)**  
Mapúa University, Manila

## PUBLICATIONS

**Dynamical concurrence of initially separable bipartite system immersed in N-qubit environment**  
R. Alporha, L. J. Sese, R. Gammag  
DOI: 10.1088/1742-6596/2793/1/012015

**Unique entanglement dynamics of two-qubit separable and Werner states in a discrete qubit environment**  
R. Alporha, L. J. Sese, R. Gammag  
ArXiv [quant-ph]  
Link: arXiv:2409.16244

## CERTIFICATES

### **Great Learning Academy:**

Introduction to Analytics  
Python for Data Analysis  
Marketing & Retail Analytics – Advanced  
Data Visualization with Power BI  
Exploratory Data Analysis with Excel  
Data Science Foundations

### **MATLAB Academy:**

MATLAB Fundamentals  
Introduction to Symbolic Math in MATLAB  
Introduction to Statistical Methods with MATLAB  
Solving Ordinary Differential Equations with MATLAB  
Solving Nonlinear Equations with MATLAB  
Introduction to Linear Algebra with MATLAB

### **Coursera:**

**Analyzing the Universe** (Completed: July 24, 2023)  
*Rutgers the State University of New Jersey*

**The Evolving Universe** (Completed: July 30, 2023)  
*Caltech*

**Data Analysis with R** (Completed: January 3, 2023)  
*IBM*

**Differential Equations Part I Basic Theory** (Completed: July 22, 2022)  
*Korea Advanced Institute of Science and Technology (KAIST)*

**Inferential Statistics** (Completed: June 23, 2022)  
*Duke University*

**Introduction to Programming with MATLAB**  
(Completed: May 3, 2022)  
*Vanderbilt University*

**Artificial Intelligence: Ethics & Societal Challenges**  
(Completed: January 2, 2024)  
*Lund University*

## INTERNSHIP PROGRAM

**DOST-ITDI National Metrology Division** (August – October 2024)

- Trained to calibrate and issue certificates for non-automatic weighing instruments and standard test weights used by companies.