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*Data science and analytics professional experienced in leveraging mathematical and computational methods to solve problems.
Proficient in developing and applying quantitative methods, with skills in programming and automation.*

Education

University of the Philippines - Diliman Aug 2024 - Dec 2027
Master of Science in Computer Science. **Affiliated with the Computer Vision and Machine Intelligence Group.**

- Won the 1st Place Best Graduate Student Paper Award at the 25th Student-Faculty Conference on Statistical Sciences
- Co-authored a research paper on factor analysis and presented it in an oral session at the 2026 International Meeting of the Psychometric Society (IMPS) following peer-reviewed acceptance
- Co-authored a research paper on longitudinal experiments that was selected from over 13,000 submissions for poster presentation at the 2026 American Educational Research Association (AERA) Annual Meeting following peer-reviewed acceptance

University of the Philippines - Diliman Aug 2019 - Jul 2023
Bachelor of Science in Statistics. **Summa cum laude.**

- Represented the university at the 25th Philippine Statistics Quiz, and won as NCR Regional Champion and National Finalist
- Consistent University Scholar, DOST Merit Scholar, Pi Gamma Mu Honor Society Nominee, Phi Kappa Phi Honor Society Nominee

Philippine Science High School - Southern Mindanao Campus Jul 2013 - May 2019
High School Diploma (S.T.E.M. strand). **With high honors.**

- Represented the school and won in various Mathematics, Statistics, and Economics competitions

Skills

Technical Languages: Python, R, SQL, VBA, Web Dev (HTML, CSS, JS, and PHP), Game Dev (Unity C#), Typesetting (LaTeX) **Data Tools and Software:** AWS SageMaker, Snowflake, Tableau, Power BI, Streamlit, Power Query, MSSQL Server, SharePoint

Professional Experience

Data Scientist Nov 2025 - Present
UnionBank of the Philippines | Full-time

- Develops and implements machine learning models and AI solutions (e.g., recommender engines, causal models) to solve business challenges, drive revenue and profit growth, and improve operational efficiency
- Leverages Python, SQL, AWS SageMaker, and Snowflake for model building and evaluation

Data and Transformation Engineer (Infrastructure Intermediate Technology Analyst) Aug 2025 - Nov 2025
Citi (Citigroup Inc.) | Full-time

- Developed an interactive dashboard (using PHP, SQL, and JS) that provided real-time figures and trends on service delivery quality
- Created scorecards on performance and productivity, covering 10+ sources and metrics, using Power Query and Power Pivot

Operations and Technology Management Analyst Jul 2023 - Jul 2025
Citi (Citigroup Inc.) | Full-time

- Completed the bank’s global 2-year Management Development Program, an exclusive accelerated track for high-potential talent to build leadership skills and cross-functional expertise
- First Team - **Data Transformation and Automation Engineer** (Citi Technology Infrastructure)
 - Built data systems and tools using PHP, SQL, JavaScript, VBA, HTML, and CSS
 - Developed a Quality Assurance platform with analytics, role-based authentication, data validation, notifications, and admin tools, automating workflows and delivering real-time insights from 2,000+ audits monthly
 - Launched a site for streamlined communication and knowledge sharing, driving 38,000 visits from 200+ users in 2.5 months
 - Created Tableau and Power BI dashboards analyzing 100,000s of data points across key performance metrics
- Second Team - **Electronic Invoicing Onboarding Analyst** (Supply Chain Operations)
 - Streamlined invoice processing by onboarding suppliers to electronic channels, serving as primary contact for 100s of suppliers

Statistics Consultant Jan 2023 - Aug 2024
Altabay Solutions | Part-time

- Performed statistical analyses (e.g., mixed-effects modeling) for studies across various disciplines (e.g., health and social sciences)
- Advised on and explained research design, data collection, and analysis methods to improve study rigor
- Facilitated workshops on research and statistical analysis for teachers and students

Data Scientist (Data Freelancer) Aug 2022 - Jun 2023
InvestEd Philippines | Freelance Contract

- Built analytical models (e.g., credit risk), and supported performance evaluation and model deployment
- Conducted statistical analyses (e.g., unsupervised and supervised learning, hypothesis testing) to improve product offerings
- Utilized R, Python, and SQL for advanced analysis and model development
- Provided analytical support for operational projects (e.g., KPI design and survey development)

Professional Experience (cont.)

Enterprise Operations and Technology Summer Analyst

Jun 2022 - Aug 2022

Citi (Citigroup Inc.) | Internship

- Worked on workforce analytics and automated reporting, with various data sources and options, using VBA and Power Query

Data Science Internship Program Instructor

May 2022 - Jun 2022

Philippine Science High School Science Immersion Program | Voluntary

- Co-developed the syllabus, and wrote materials and exercises about several Python packages, web scraping, and basic statistics
- Served as one of the panelists during the interns' capstone project presentations

Data Science Intern

Jan 2022 - Mar 2022

Bank of the Philippine Islands (BPI) | Internship

- Worked in teams to formulate data-driven solutions to fields such as consumer profiling, market research, and credit risk analysis
- Created a comprehensive web-based dashboard with built-in machine learning implementation (text clustering) to automate data transformation, calculations, and visualizations for consumer behavior insights using Python
- Was given special recognition for outstanding performance

Leadership and Volunteer Experience

Chief Research Officer

Dec 2025 - Present

Beyond The Charts

- Manages the Research committee by setting strategic direction, providing operational oversight, and more
- Actively contributes to the design and execution of projects that include research, content generation, and workshops
- Works with other Executive Committee members to run and expand the organization

Vice President for Academic Affairs

Jul 2022 - Aug 2023

UP Investment Club

- Managed 3-4 teams that consisted of 15-22 members (e.g., strategy, coordination, task scheduling and allocation, etc.)
- Led teams in projects such as regular lectures (4-7 semesterly) and publishing educational content and newsletters (1-3 weekly)
- Worked with others to keep run the organization and to create new initiatives (e.g., new lecture series, content expansion, etc.)

Projects and Research

Pairwise Target Rotation for Factor Models

See preprint at <https://arxiv.org/abs/2409.11525>See code at <https://github.com/interpretablefa/interpretablefa>

We developed a new factor rotation method (an unsupervised learning technique) and its Python implementation, that can incorporate arbitrary prior information (e.g., semantics) for exploration and model building.

Design and Implementation of Longitudinal Experiments

See preprint at <https://www.researchsquare.com/article/rs-7262280/latest>

We characterized hierarchical linear models through the design and analysis of a Monte Carlo experiment (including the simulation of nested data, attrition, and more), implemented in R, to produce recommendations for longitudinal experiments.

FactorFlow

See app at <https://factorflow-efa.streamlit.app/>See code at <https://github.com/jptuazon/factorflow>

I developed an LLM-enhanced visual workbench for exploratory factor analysis with interactive model building and automated interpretation.

Simulated Normality Test

See project at <https://jptuazon.github.io/SinoTestSite/>

We developed and analyzed a test for normality. I also made an R package implementing the test.

Match App

See project at <https://justin-tuazy.shinyapps.io/match-app/>

I implemented Gower's Distance and Binary Integer Linear Programming using R and created a web app for a student council initiative that involved optimally grouping students for theses.

TREE\$

See project at <https://simmer.io/@BurgerLover/trees>

I made a game for a class using Unity with C#, including its visual and audio assets.

Awards

2026

- Presented a research paper in an oral session at the **2026 International Meeting of the Psychometric Society**

2025

- Research paper accepted for poster presentation at the **2026 American Educational Research Association Annual Meeting**

2024

- 25th Student-Faculty Conference on Statistical Sciences: **Presented and won 1st Place Best Graduate Student Paper Award**

2022

- Philippine Innovation Challenge 2022: **Semifinalist**

2019

- 25th Philippine Statistics Quiz: **NCR Regional Champion and National Finalist**
- 2019 ECONVERGENCE Economics Quiz Contest: **2nd Place**
- 2019 Mapúa Malayan Colleges Mindanao Cup Math Quiz Show: **2nd Place**

2018

- 2018 International Competitions and Assessments for Schools (Mathematics): **Certificate of Distinction**
- 2018 Mapúa Malayan Colleges Mindanao Cup Math Quiz Show: **1st Place**
- 21st Philippine Mathematical Olympiad: **Area Stage Qualifier**
- 5th Economic Leaders' Congress Quiz Bee + Policy Paper Competition - **1st Place**

2017

- 14th National Youth Congress Economics Quiz Bee: **2nd Place**
- 2017 International Teenagers' Mathematics Olympiad - National Parallel Cluster: **Bronze Medalist**
- 2nd Inter-High School Statistics Quiz Bowl: **Champion**
- 2017 Metrobank-MTAP-DepEd Math Challenge
 - Team Category: **National Finalist**
 - Individual Elimination Round: **1st Honors**
- 2017 Australian Mathematics Competition: **Certificate of Distinction**
- 2017 Math Mania: **Champion**

2016

- 19th Philippine Mathematical Olympiad: **Area Stage Qualifier**
- 2016 Australian Mathematics Competition: **Certificate of Distinction**
- 2016 International Competitions and Assessments for Schools (Mathematics): **Certificate of Distinction**
- 2016 Metrobank-MTAP-DepEd Math Challenge
 - Division Finals: **2nd Place**
 - Individual Elimination Round: **2nd Honors**

2015

- 2015 Canadian Intermediate Mathematics Competition: **Distinction**
- 2015 Metrobank-MTAP-DepEd Math Challenge
 - Division Finals: **1st Place**
 - Individual Elimination Round: **2nd Honors**