

Jeffhram Balilla

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Rocka Village 3, Sta. Rita.
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Education:

Master in Economic Research, Center for Economic Research and Graduate Education - Economic Institute, Prague Czech Republic (Note: Received the notice of Direct Admission, August 21, 2023)

Master of Business Administration, La Consolacion University Philippines, 2019-2023

Thesis: *"An Analysis Ensemble Based Predictive Machine Learning Model for the Philippine Stock Exchange Index: An Tool for Investment Decision Making"*

GWA: 1.04 (Excellent)

Master of Statistics, University of the Philippines Diliman, 2016-2021

Thesis: *"Application of Machine Learning Methods on Predicting Point of Sales Credit Default"*

GWA: 1.71 (Very Good)

Master in Applied Statistics, Polytechnic University of the Philippines, 2015-2016 (Sem 2)

Earned 9 units

Juris Doctor (Doctor of Jurisprudence), Bulacan State University, 2015-2016 (Sem 1)

Earned 18 units

Bachelor of Science in Mathematics with Specialization in Applied Statistics, Bulacan State University, 2010-2015

Thesis: *"Crime Against Property in the Philippines; Its Relation with the Population"*

GWA: 2.30 (Good)

Relevant Trainings:

Oxford Machine Learning Summer School, Oxford Mathematical Institute (*AIG and Oxford Deep Medicine Program*)

Code in Place 2023, Stanford University

Contract Program for the Earth and Life Science Vrije Universiteit Amsterdam, Netherlands

ESCAP Technical R Training for LNOB Analysis in the Philippines from 13-14 December 2022

10th SEAMEO-University of Tsukuba Symposium, 10-12 February 2022

Nihongo, Funabashi International Language School, Nishi-Funabashi, Chiba, Japan

Data Science and Artificial Intelligence, (Under the supervision of Dr. Michal Fabinger), Acalonia (*Tokyo Data Science*)

Bertelsmann Scholarship 2022, Business Analytics (Challenge Finalist)

Lean Six Sigma Green Belt, Asian Institute of Management, Philippines

Huawei Certified ICT Associate - Artificial Intelligence, Huawei

SPARTA (Data Science), Department of Science and Technology (DOST), Philippines

Work Experience:

Adjunct Faculty, Bulacan State University Graduate School (2024)

Data Science Consultant, Embassy Row Project (US election poll), 12 hours

Grant Writer, Families and Workers Fund, 2024

Grant Writer, Career Connect Washington Round 12, 2023

Grant Writer, RFP 2023-10 CCW ABA Round 2, Pre-Apprenticeship Program (Won \$142,000.00 fund), 2023.

Product Manager, Skillspire LLC, United State, July 12, 2023 - Present

Operations Manager, Farmer's Choice Agrivet & Balilla Agri Enterprise, March 2017 - March 2020

Introduction to Data Analytics Instructor, Skillspire LLC, United States, November 12, 2023 -February 12, 2024

Introduction to Data Analytics Instructor, Skillspire LLC, United States, July 17, 2023 - November 17, 2023

Instructor (Mathematics, Statistics, and Business), Undergraduate, Bulacan State University, August 5, 2015 - Present

Statistician for Land Use Development and Infrastructure Plan of the Bulacan State University, 2021-2022

Statistician for the Feasibility Study of Offering Bachelor of Science in Medical Technology (BSMT) in Bulacan State University, 2021

Team Lead of Institutional Planning Division & Head of Institutional Assessment, Effectiveness, and Research Advancement Unit, Bulacan State University, November 5, 2020 - August 7, 2023

Teaching Assistant for Melanie L. Milligan, Introduction to Data Analytics, Skillspire LLC, United States, May 8, 2023 - August 7, 2023

Teaching Assistant for Dr. Antwoine Flowers & Lab Instructor for Advance Data Analytics and Data Science, Skillspire LLC, United States, February 20, 2023 - May 13, 2023

Freelance Statistician, January 2017 – Present

Student Internship Program Coordinator, Bulacan State University, April 2017-August 2022

Papers (Author & Co-Author):

On the Use of Artificial Neural Network as Remedy to the Limitations of Linear Regression

Assessment of COVID-19 Mass Testing: The Case of South Korea (Citation :45)

Characterizing the Impact of COVID-19 on the Global Stock Indices through Comparative Analysis (Citation : 3)

A 6-Year Forecast of Egg, Rice, and Onion Retail Prices in the Philippines: An Application of ARIMA and SARIMA Models (Citation: 2)

Turnover-attachment motive of Saudi Arabia nursing workforce: A Cross-Sectional study

Application of Machine Learning Methods on Point of Sales Credit Risk

Benchmarking Diverse Regression Models for Crude Oil Price Prediction

Application of Machine Learning Methods on Predicting Point of Sales Credit Default

Crime Against Property in the Philippines; Its Relation with the Population

Comparison of T-test with Geometric Means and Mann-Whitney U Test on Skewed Datasets

An Ensemble-Based Predictive Machine Learning Model for the Philippine Stock Exchange Index

Attitudes of Health Care Providers in Relation to Disability, Saudi Arabia

The Impact of Clinical Teaching Behavior on Learning Experience of Saudi Nursing Students

Assessment of Knowledge, Attitude, and Behavior (KAB) associated with Antimicrobial Agent Use among STEM Students in the Philippines: A Cross-Sectional Study

Paper Presentations:

An International Conference on Microbiology and Infectious Diseases, March 2021

Referee Services:

La Consolacion University, Graduate Studies Department, Master of Arts major in Computer Assisted Instruction and Master in Public Administration major in Research and Development Planning, 2020

The Quarterly Review of Economics and Finance, Elsevier, 2020

University Journal Publication (UJP), Bulacan State University 2023

International Conference on High Education Research, Philippine Association of Institutions for Research (PAIR), 2023

Special Lectures:

Data Visualization (34th National Statistics Month), 2023
Power BI (Big Data and Artificial Intelligence Club, St. Lawrence College, Canada), 2023
Demystifying AI: Fundamentals of SQL and Python for AI Applications, 2023
Understanding Nursing Workforce Turnover Intention through Statistics (33rd National Statistics Month), 2022
The Basics of Stocks and Crypto Trading, Bulacan State University, 2022
Does Sample Size Matter? A Simple Guide to Computing Sample Size for Research, 2021
Online Marketing (BulSU SAMBALARAN), 2020
Basic Statistics (BulSU, College of Science SAMBALARAN), 2017
Hypothesis Testing (BulSU, College of Social Sciences and Philosophy), 2017

Notable Advised Undergraduate Students:

Benchmarking Diverse Regression Models for Crude Oil Price Prediction, Catanghal, Nikko R., Dela Peña, Gwel Tamara C., Espino, Dhenross R., Fernandez, Jed Mark O., Trinidad, Riva Noreen P., Bachelor of Science in Mathematics with specialization in Applied Statistics, 2023

A 6-Year Forecast of Egg, Rice, and Onion Retail Prices in the Philippines: An Application of ARIMA and SARIMA Models, Bondoc, Mariz E., Castro, Kate Anne V., Ebrada, Althea R., Padua, Annalene O., Bachelor of Science in Mathematics with specialization in Applied Statistics, 2023

Understanding the Effect of Education-Job Mismatch on Wages Among College Graduates: Evidence from the Philippines, Dela Cruz, Nino C., Jumaquio, Ivan Henry M., Navarro, Rence Jainelle C., Sabariaga, Lyka Mae R., Bachelor of Science in Mathematics with specialization in Applied Statistics, 2022

On the Use of Machine Learning Methods on Cryptocurrency Price Prediction: A Recurrent Neural Network and Facebook Prophet Approach, Calalang, Dominick D. , Leaño, Robert John E. Lopez, Hannah May M., Villaverde, Niel David P., Bachelor of Science in Mathematics with specialization in Applied Statistics, 2022

Perceptions on Coastal Reclamation of Household in Bulakan, Bulacan, Reyes, Liezel V, Sanggalang, Marisol dC., Silverio, Elyza S., Bachelor of Science in Mathematics with specialization in Applied Statistics, 2018

Memberships:

Mathematics Society of the Philippines Region 3 Chapter
National Society of the Philippines
Southeast Asian Mathematical Society