$\underset{\mathit{Curriculum Vitae}}{\mathbf{Adriel Ong}}$

E-mail: | datstat_consulting@aol.com Website: | https://datstat-consulting.github.io

Consultancy Work

Gave consulting, traffic study, and seminar for traffic and transport economics in a city with more than one million population in the Philippines. Mall Inventory Optimization Performed Stochastic Inventory Control for a mall chain in the Philippines. Banking Sector Business Intelligence Estimated several models regarding financial institutions, including Markov Chains and regression models. 2021/11 Population and Chattel Slawery Prevalence Gave statistical consulting and performed analysis of population impact on chattel slavery prevelance, along with temporal-spatial effects. 2021/10 Illiquid Assets Pricing Model Implemented a model in Python that estimated illiquid asset volatility and correlation with liquid asset, then performed price simulation using estimated results. Forecasting Weekly Sales Volumes Transactional Data Implemented a Multilayer Perceptron for forecasting product sales volumes using transactional casher data, and performed correlation analysis for first-differenced sales and pricing data. Discovered that sales for different product groups would rise by more than 180% for all groups but one, both target countries, and one target channel, and that two goods violated the Law of Demand. 2021/09 Prey Processing Bout Longitudinal Analysis Performed longitudinal data analysis on shark prey-processing behavior using standard econometric tools for time series and panel data. 2021/08 State Space Model using Kalman Filter for Macroeconomic Forecasting Performed a novel implementation for Kalman filter for credit and macroeconomic data using Python. This implementation was required for analysis of panel data with exogenous control variables with Kalman filtering. 2021/07 Bayesian Distance Clustering algorithm in R. This implementation required novel code for Hamiltonian Monte Carlo with tensor objects. 2021/06 Traffic forecasting in Software Defined Networking using Deep Learning Performed classification modeling on longitudinal data for shark behavior, with corrections for autocorrelation an	WIP	Intelligent Transportation System Consulting
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Obtained company time-series data on employee productivity and performed market research to determine their effects on the company's profits.		Obtained company time-series data on employee productivity and performed market research to determine their effects on the company's profits.

Consultancy Roles

2021/11–Present

Film Industry Market Analysis, *Department of Trade and Industry* Consultancy for market analysis of the Film Industry.

WORKING PAPERS

Empirical

2021/05 Developing a Provincial Destination Choice Model of the Philippines

MSR Working Paper Series Developed a model assigning weights to factors affecting domestic traveller

choice of provincial destination in the Philippines.

2021/05 Historical Climate Factors and Rice Prices in the Philippines

MSR Working Paper Series | A paper analyzing how rice prices in the Philippines have responded to historical climate factors.

CASE STUDIES

Transportation

2010/02	Posts Assignment for Toront Interest Matte Marile Control Projects Districts
2019/03	Route Assignment for Travel between Metro Manila Central Business Districts
	Determined optimal route assignments for travelers between Makati, Ortigas, and Bonifacio Global City using linear programming methods.
2018/12	Mode Choice Analysis of New York City
	Undertook mode choice analysis of passenger behavior in New York City using 2017 data.
2018/08	Estimation of the Lane–Mile Elasticity of Metro Manila Traffic
	Estimated the magnitude of effect of road size and expansions on traffic in Metro Manila in the Philip-
	pines using linear regression methods.

Miscellaneous

 $2019/03 \mid$ Is the Filipino Worker Ready for Industry 4.0? An Empirical Analysis

Performed classification analysis of factors predisposing the Filipino labor market to choices of occupation.

Courses Taught

M&S RESEARCH HUB

 $Applied\ Econometrics$

A program for training in Econometric Theory.

Progmetrics

A program for training in practical Econometrics using R and Python.

Introductory Machine Learning Theory and Practice

Intensive training on the fundamentals of Machine Learning for econometric modeling and data analysis using Julia.

Bayesian Inference for Data Science and Research

Introductory training for Bayesian inference theory and applications to statistical inference and regression analysis.

Theoretical Foundations of CGE Modelling

Training for Computable General Equilibrium models with GAMS.

 $Recommended\ course\ by\ the\ GAMS\ Institute.$

Bayesian SVAR and Regime Switching Models Using R and Stata

Special training for the theory and practice of Structural Vector Autoregressions, Bayesian Inference, and Regime Switching Models with R and Stata.

Positions Held

2020/03-Present Chief Statistician, DATSTAT Consulting

Balibago, Angeles, Philippines Academic Council, M&S Research Hub 2020/11-2022/12

Kassel, Germany

E-mail: ong@ms-researchhub.com

2019/08-Present Data Analyst and Software Developpr, ACOng Consulting Inc

Makati, Philippines

SOFTWARE DEVELOPMENT

2021/09 Panel Kalman Filter

Developed a Python Package for Kalman Filtering of Panel Data.

FORMATION

2024/09 Master of Science in Mathematics (in-progress)

Open University, United Kingdom

2019/12 Bachelor of Science in Applied Economics, Major in Industrial Economics

De La Salle University, Philippines

Thesis: "Developing a Provincial Destination Choice Model of the Philippines"

Advisor: Lawrence B. Dacuycuy

cGPA: 3.193/4.0

Languages

Mother Tongue ENGLISH:

Tagalog: Fluent

Kapampangan: Intermediate

LATIN: Ecclesiastical Usage

Programming Languages

Intermediate: Python, R, Julia, C#, LATEX, HTML, CSS

Software Packages: Statsmodels, PYMC3, Sckit-Learn, Theano

Operating Systems Used: Ubuntu, Manjaro, ArtixLinux

Other Software Used: SageMath, Stata, GAMS, OnlyOffice

Interests and Activities

Concentratios: Mathematics, Statistics, Economics

Probability Theory, Stochastic Processes, Regression Analysis, Transportation Main Fields:

Research, Decision Theory

Hobbies: Aristotelian Philosophy, Medieval Social and Economic History

YouTube Channel: VIATORINTERRA

References

lawrence.dacuycuy@dlsu.edu.ph Lawrence B. Dacuycuy marites.tiongco@dlsu.edu.ph Marites Tiongco

Justin Raymond Eloriaga eloriagajs@bsp.gov.ph

Sherif Maher Hassan hassan@ms-researchhub.com