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

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

# Consultancy Work

CONSUL	IMIOI WORK
WIP	Intelligent Transportation System Consulting
	Gave consulting, traffic study, and seminar for traffic and transport economics
шир	in a one million population city in the Philippines.
WIP	Mall Inventory Optimization
	Performed Stochastic Inventory Control and exploratory data analysis for a mall chain in the Philippines.
WIP	Banking Sector Business Intelligence
	Estimated several models regarding financial institutions, including Markov Chains and regression models.
2021/06	Traffic forecasting in Software Defined Networking using Deep
	Learning
	Performed classification analysis to forecast traffic flowing to Network Protocols.
2021/05	Classification Model for Shark Behavior
	Performed classification modeling on longitudinal data for shark behavior, with corrections for autocorrelation and multicollinearity.
2021/04	Uncorrelated Capital Asset Pricing Estimation for Multiasset
	Portfolio
	Estimated a Capital Asset Pricing Model for a panel of assets with uncorrelated alpha and beta.
2020/10	Cafe Aghora Sales Consultancy
	Gave consultation for a data science team which analyzed optimal days for sales from Cafe Aghora in Bacolod City.
2020/10	Sta Rita Orphanage Data Engineering
	Gave consultation for a data science team which performed data engineering for Sta Rita Orphanage in Parañaque City.
2020/07	Alabel Municipal Hall Feasibility Study
	Prepared a feasibility study on the new municipal hall of Alabel, Sarangani.
2020 / 05	Outlook on Feeds and Grain Market
2020163	Prepared an outlook analysis on the domestic markets for feeds and grains.
2020/01	Hotel Feasibility Study
	Estimated projected profits using quantitative methods on visitor, revenue, and geospatial data.
2020/01	Employee Turnover Analysis
	Crafted a survey to record key variables and performed statistical analysis to determine which variables affected the probability of turnover.
2019/11	Firm Profitability Analysis
	Obtained company time-series data on employee productivity and performed market research to determine their effects on the company's profits.

# 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

Route Assignment for Travel between Metro Manila Central Business Dis-
tricts
Determined optimal route assignments for travelers between Makati, Ortigas, and Bonifacio
Global City using linear programming methods.
Mode Choice Analysis of New York City
Undertook mode choice analysis of passenger behavior in New York City using 2017 data.
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 Philippines using linear regression methods.

### Miscellaneous

2019/03 | 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

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

 $S_{TATA}$ 

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	Chief Statistician, DATSTAT Consulting
	Balibago, Angeles, Philippines
2020/11-2022/12	,
	Kassel, Germany
E-mail:	ong@ms-researchhub.com
2019/08	Data Analyst, ACOng Consulting Inc
	Makati, Philippines

#### Software Development

WIP | Project Management and Monitoring Pipeline Software (PMMPS)

Built a data pipeline that facilitates project management and monitoring for consultancy firms.

# 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

English: Mother Tongue

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:

Other Software Used:

Other Software Used:

Statishoders, Fines, Scale Learn, Fines, Statishoders, Fines, Fines, Statishoders, Fines, Fine

# Interests and Activities

Concentratios: Mathematics, Statistics, Economics

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

Transportation Research, Decision Theory

Incidental Interests: Aristotelian Philosophy, Medieval Social and Economic His-

tory

#### References

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