Adriel Ong
Curriculum Vitae

E-mail:	`datstat_consulting@aol.com`
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CONSULTANCY WORK

WIP	*Intelligent Transportation System Consulting*
	Gave consulting, traffic study, and seminar for traffic and transport economics in a city with more than one million population in the Philippines.
WIP	*Mall Inventory Optimization*
	Performed Stochastic Inventory Control for a mall chain in the Philippines.
WIP	*Banking Sector Business Intelligence*
	Estimated several models regarding financial institutions, including Markov Chains and regression models.
2021/07	*Bayesian Distance Clustering in R*
	Implemented a Bayesian Distance Clustering algorithm in R.
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*
	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

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 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 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
2020/11–2022/12	Academic Council, M&S Research Hub
	Kassel, Germany
E-mail:	`ong@ms-researchhub.com`
2019/08–Present	Data Analyst and Software Develoepr, 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:	Ubuntu, Manjaro, ArtixLinux
Other Software Used:	SageMath, Stata, GAMS, OnlyOffice

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 History

References

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