

Adriel Ong

Curriculum Vitae

Website:	https://manifoldpreacher.github.io/index.html
E-mail:	adriel_ong@zoho.com
Position held:	Academic Council Staff, M&S Research Hub
Website:	https://ms-researchhub.com
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Case Studies

Transportation

2019/08	Developing a Provincial Destination Choice Model of the Philippines Developed a model assigning weights to factors affecting domestic traveller choice of provincial destination in the Philippines.
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

2018/12	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.
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Consultancy Work

2020/10	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	Rotavirus Vaccine Economic Analysis Performed Economic analysis for the Rotavirus vaccine for different income classifications.
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.

Training

M&S Research Hub

2021/3	Bayesian Inference for Data Science and Research Gave introductory training for Bayesian inference theory and applications to statistical inference and regression analysis.
2020/11–12	Open Economy Models, Dynamic CGE, and SAM Balancing with GAMS Gave training for Computable General Equilibrium models with GAMS.
2020/11	Bayesian SVAR and Regime Switching Models Using R and Stata Gave introductory training to the theory and practice of Structural Vector Autoregressions, Bayesian Inference, and Regime Switching Models with Stata.

Positions Held

2020/12–2022/12	M&S Research Hub Academic Council
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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, \LaTeX , HTML, CSS
Basic:	Julia, C#
Software Packages:	Statsmodels, PYMC3, Scikit-Learn, Theano
Operating Systems Used:	Ubuntu, Manjaro, ArtixLinux
Other Software Used:	SageMath, Stata, GAMS, OnlyOffice

Interests and Activities

Main Fields: Mathematics, Statistics

Concentrations: Probability Theory, Stochastic Processes, Regression Analysis, Transportation Research, Decision Theory

Incidental Interests: Scholastic Philosophy, Medieval Studies

References

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