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
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Consultancy Work

2020/04	**Uncorrelated Capital Asset Pricing Estimation for Multiasset Portfolio**
	Estimated a Capital Asset Pricing Model for a panel of assets with uncorrelated alpha and beta.
2021/04	**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.

Journal Articles

Empirical

2021/04	**Expansionary Credit, Easy Money, and Boom-bust Cyles, 1867–1970: Causality Analysis with Impulse Response**
Economics Notes (in-review)	A paper testing Austrian Business Cycle Theory using time series and difference equation analysis.

Working Papers

Empirical

WIP	**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

2019/08	**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

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.

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.

Software Development

WIP	**Project Management and Monitoring Pipeline Software (PMMPS)**
	Built a data pipeline that facilitates project management and monitoring for consultancy firms.

Positions Held

2020/12–2022/12	**M&S Research Hub**
	Academic Council

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, Sckit-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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