

# Adriel Ong

## Curriculum Vitae

Website:	<a href="https://manifoldpreacher.github.io/index.html">https://manifoldpreacher.github.io/index.html</a>
E-mail:	<a href="mailto:adriel_ong@zoho.com">adriel_ong@zoho.com</a>
Position held:	Academic Council Staff, M&S Research Hub
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## Case Studies

### Transportation

2019/08	<b>Developing a Provincial Destination Choice Model of the Philippines</b> Developed a model assigning weights to factors affecting domestic traveller choice of provincial destination in the Philippines.
2019/03	<b>Route Assignment for Travel between Metro Manila Central Business Districts</b> Determined optimal route assignments for travelers between Makati, Ortigas, and Bonifacio Global City using linear programming methods.
2018/12	<b>Mode Choice Analysis of New York City</b> Undertook mode choice analysis of passenger behavior in New York City using 2017 data.
2018/08	<b>Estimation of the Lane-Mile Elasticity of Metro Manila Traffic</b> 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	<b>Is the Filipino Worker Ready for Industry 4.0? An Empirical Analysis</b> Performed classification analysis of factors predisposing the Filipino labor market to choices of occupation.
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## Consultancy Work

2020/10	<b>Uncorrelated Capital Asset Pricing Estimation for Multiasset Portfolio</b> Estimated a Capital Asset Pricing Model for a panel of assets with uncorrelated alpha and beta.
2020/10	<b>Rotavirus Vaccine Economic Analysis</b> Performed Economic analysis for the Rotavirus vaccine for different income classifications.
2020/10	<b>Cafe Aghora Sales Consultancy</b> Gave consultation for a data science team which analyzed optimal days for sales from Cafe Aghora in Bacolod City.
2020/10	<b>Sta Rita Orphanage Data Engineering</b> Gave consultation for a data science team which performed data engineering for Sta Rita Orphanage in Parañaque City.
2020/07	<b>Alabel Municipal Hall Feasibility Study</b> Prepared a feasibility study on the new municipal hall of Alabel, Sarangani.
2020/05	<b>Outlook on Feeds and Grain Market</b> Prepared an outlook analysis on the domestic markets for feeds and grains.
2020/01	<b>Hotel Feasibility Study</b> Estimated projected profits using quantitative methods on visitor, revenue, and geospatial data.
2020/01	<b>Employee Turnover Analysis</b> Crafted a survey to record key variables and performed statistical analysis to determine which variables affected the probability of turnover.
2019/11	<b>Firm Profitability Analysis</b> Obtained company time-series data on employee productivity and performed market research to determine their effects on the company's profits.

## Training

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### M&S Research Hub

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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

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

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2024/09	Master of Science in Mathematics (in-progress) Open University, United Kingdom
2020/12	Master of Science in Mathematics (partial completion) De La Salle University, Philippines
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

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English:	Mother Tongue
Tagalog:	Fluent
Kapampangan:	Intermediate
Latin:	Ecclesiastical Usage

## Programming Languages

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Intermediate:	Python, R, $\text{\LaTeX}$ , Groff, Markdown, HTML, CSS
Basic:	Julia, C#
Operating Systems Used:	Ubuntu, Manjaro, ArtixLinux
Other Software Used:	SageMath, Stata, OnlyOffice

## Interests and Activities

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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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