

# Adriel Ong

## *Curriculum Vitae*

Website:	<a href="https://manifoldpreacher.github.io/index.html">https://manifoldpreacher.github.io/index.html</a>
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## RESEARCH PAPERS

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### EMPIRICAL

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2021/04	<i>Expansionary Credit, Easy Money, and Boom-bust Cycles, 1867–1970: Causality Analysis with Impulse Response</i>
ECONOMICS NOTES	A paper testing Austrian Business Cycle Theory using time series and difference equation analysis.

## CASE STUDIES

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### TRANSPORTATION

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2019/08	<i>Developing a Provincial Destination Choice Model of the Philippines</i> Developed a model assigning weights to factors affecting domestic traveller choice of provincial destination in the Philippines.
2019/03	<i>Route Assignment for Travel between Metro Manila Central Business Districts</i> Determined optimal route assignments for travelers between Makati, Ortigas, and Bonifacio Global City using linear programming methods.
2018/12	<i>Mode Choice Analysis of New York City</i> Undertook mode choice analysis of passenger behavior in New York City using 2017 data.
2018/08	<i>Estimation of the Lane–Mile Elasticity of Metro Manila Traffic</i> Estimated the magnitude of effect of road size and expansions on traffic in Metro Manila in the Philippines using linear regression methods.

### MISCELLANEOUS

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2018/12	<i>Is the Filipino Worker Ready for Industry 4.0? An Empirical Analysis</i> Performed classification analysis of factors predisposing the Filipino labor market to choices of occupation.
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## CONSULTANCY WORK

2020/04	<i>Uncorrelated Capital Asset Pricing Estimation for Multiasset Portfolio</i> Estimated a Capital Asset Pricing Model for a panel of assets with uncorrelated alpha and beta.
2021/04	<i>Rotavirus Vaccine Economic Analysis</i> Performed Economic analysis for the Rotavirus vaccine for different income classifications.
2020/10	<i>Cafe Aghora Sales Consultancy</i> Gave consultation for a data science team which analyzed optimal days for sales from Cafe Aghora in Bacolod City.
2020/10	<i>Sta Rita Orphanage Data Engineering</i> Gave consultation for a data science team which performed data engineering for Sta Rita Orphanage in Parañaque City.
2020/07	<i>Alabel Municipal Hall Feasibility Study</i> Prepared a feasibility study on the new municipal hall of Alabel, Sarangani.
2020/05	<i>Outlook on Feeds and Grain Market</i> Prepared an outlook analysis on the domestic markets for feeds and grains.
2020/01	<i>Hotel Feasibility Study</i> Estimated projected profits using quantitative methods on visitor, revenue, and geospatial data.
2020/01	<i>Employee Turnover Analysis</i> Crafted a survey to record key variables and performed statistical analysis to determine which variables affected the probability of turnover.
2019/11	<i>Firm Profitability Analysis</i> 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	<i>Bayesian Inference for Data Science and Research</i> Gave introductory training for Bayesian inference theory and applications to statistical inference and regression analysis.
2020/11–12	<i>Open Economy Models, Dynamic CGE, and SAM Balancing with GAMS</i> Gave training for Computable General Equilibrium models with GAMS.
2020/11	<i>Bayesian SVAR and Regime Switching Models Using R and STATA</i> 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	<i>M&amp;S Research Hub</i> 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

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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

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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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Lawrence B. Dacuycuy	lawrence.dacuycuy@dlsu.edu.ph
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