

# 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 PROJECTS

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### DECISION THEORY

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2019/08	<i>Markov Switching Model of Driving Decisions with Bounded Rationality</i> Networks and Spatial Economics (Under Review)
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### 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

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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

2020/11–12	<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

APRIL 2022 (Projected)	Master of Science in MATHEMATICS De La Salle University, Philippines
December 2019	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
Relevant Grades:	
Introductory Econometrics	3.5
Advanced Econometrics	4.0
Economics Thesis 1	4.0
Economics Thesis 2	3.5
MARCH 2016	<b>Colegio San Agustin</b> , Makati — Final Average: 92.95/100

## LANGUAGES

ENGLISH:	Mother Tongue
TAGALOG:	Fluent
KAPAMPANGAN:	Intermediate
LATIN:	Ecclesiastical Usage

## PROGRAMMING LANGUAGES

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

Lawrence B. Dacuycuy	lawrence.dacuycuy@dlsu.edu.ph
Marites Tiongco	marites.tiongco@dlsu.edu.ph
Justin Raymond Eloriaga	eloriagajs@bsp.gov.ph
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