

Adriel Ong

Curriculum Vitae

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| 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 |
| E-mail: | ong@ms-researchhub.com |

Case Studies

Transportation

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| 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

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| 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

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| 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

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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, \LaTeX , HTML, CSS |
| Basic: | Julia, C# |
| Software Packages: | Statsmodels, PYMC3, Scikit-Learn, Theano |
| 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

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| Lawrence B. Dacuycuy | lawrence.dacuycuy@dlsu.edu.ph |
| Marites Tiongco | marites.tiongco@dlsu.edu.ph |
| Justin Raymond Eloriaga | eloriagajs@bsp.gov.ph |
| Sherif Maher Hassan | hassan@ms-researchhub.com |