Adriel Ong
Curriculum Vitae

Technical Skills

Programming Languages:	Python, R, Julia, C#, SQL, LaTeX, HTML, CSS
R Packages:	dplyr, tidy, tidyCDISC, patientProfilesVis, clinUtils, stargazer, Hmisc
Python Libraries:	Statsmodels, PyMC3, sklearn, numpy, PyTorch, PySpark, TensorFlow
Data Visualization:	Python (Dash, Anvil), R (ggplot2)
C# Frameworks:	Avalonia UI
NoSQL Databases:	ScyllaDB
Other Software Used:	SageMath, Stata, GAMS, OnlyOffice
Clinical Data Standards:	SDTM, ADaM
Treatment Outcome Analysis:	Dose Escalation, Randomized Control Trials, Registry Study.
Credit Risk Modeling:	PD, LGD, and EAD

Formation

2022/06	Postgraduate Diploma in MATHEMATICS Open University, United Kingdom
2021/06	Postgraduate Certificate in MATHEMATICS 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

Positions Held

2020/03–2023/03	Independent Contractor Statistician Performed regression analysis, treatment effect analysis, and credit risk modelling, among others
2020/11–2022/02	Academic Council, M&S Research Hub Leadership and Teaching role; taught econometric, statistical, and probability theory Kassel, Germany

Courses Taught

M&S Research Hub

Applied Econometrics
A program for training in Econometric Theory.

Progmetrics
A program for training in practical Econometrics using R and Python.

Introductory Machine Learning Theory and Practice
Intensive training on the fundamentals of Machine Learning for econometric modeling and data analysis using Julia.

Bayesian Inference for Data Science and Research
Introductory training for Bayesian inference theory and applications to statistical inference and regression analysis.

Theoretical Foundations of CGE Modelling
Training for Computable General Equilibrium models with GAMS.
Recommended course by the GAMS Institute.

Bayesian SVAR and Regime Switching Models Using R and STATA
Special training for the theory and practice of Structural Vector Autoregressions, Bayesian Inference, and Regime Switching Models with R and Stata.

WORKING PAPERS

EMPIRICAL

2022/02	*Expansionary Credit, Easy Money, and Boom-bust Cycles, 1868-1970*
MSR WORKING PAPER SERIES	Analyzed long-run and causal effects of expansionary credit on American business cycles.
2021/05	*Developing a Provincial Destination Choice Model of the Philippines*
MSR WORKING PAPER SERIES	Developed a model assigning weights to factors affecting domestic traveller choice of provincial destination in the Philippines.
2021/05	*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

2019/03	*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.

SEMINARS ATTENDED

2021/03	*The Linear Probability Model and Its Discontents*
	by Andrew Pua
2020/12	*Automation, Tasks, and Wages*
	by Daron Acemoglu

REFERENCES

Lawrence B. Dacuycuy	lawrence.dacuycuy@dlsu.edu.ph
Marites Tiongco	marites.tiongco@dlsu.edu.ph
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