

HANS JARETT J. ONG

Doctoral Student | Data Science | Causal AI

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CAREER SUMMARY

Ph.D. candidate specializing in **Causal AI**, developing novel algorithms for **causal discovery** and **representation learning** using **meta-learning** and **deep learning** techniques. My research aims to bridge the gap between foundational theory and real-world application, building on industry experience in deploying high-impact **machine learning models**. I am focused on creating robust, fair, and transparent AI systems.

EXPERIENCE

Research Collaborator

Nippon Telegraph and Telephone (NTT) R&D

Aug 2024 – Present Kyoto, Japan

- Developing "MetaCaDI," a novel **meta-learning framework** for few-shot differentiable Bayesian **causal discovery** with unknown interventions.
- Authored a full research paper prepared for submission to **AAAI 2026**.

Research Collaborator

Mobility Fundamentals Mathematics Research by Kyoto University & Toyota

Oct 2023 – Present Kyoto, Japan

- Conducted foundational research in **causality**, focusing on novel methods for causal discovery.
- Presented key findings on a compression-based causal discovery method at the International Conference on Neural Information Processing (**ICONIP 2024**).

Senior Data Scientist

Bank of the Philippine Islands

May 2022 – Sep 2023 Manila, Philippines

- Developed and deployed an investment propensity model that enhanced campaign targeting, resulting in a **22% increase in assets under management (AUM)**.
- Engineered a production-level **recommender system** using customer profiles and financial needs to recommend tailored investment funds.

Data Scientist, AI Engineering

Optum Labs (UnitedHealth Group R&D)

Jul 2019 – Apr 2022 Minneapolis, US (Remote)

- Spearheaded research analyzing patient data to quantify diabetic readmission risk and detect changes in depression severity using health tracker data.
- Led the development of internal **Python packages** and R Shiny dashboards that automated data analysis and reporting, **reducing analysis time by up to 80%**.

EDUCATION

D.Sc., Information Science
(Expected 2026)

Nara Institute of Science and Technology

2023 – Present Nara, Japan

M.Eng., Artificial Intelligence
(Partial Completion)

University of the Philippines, Diliman

2022 – 2023 NCR, Philippines

B.S., Physics, Cum Laude

Ateneo de Manila University

2014 – 2019 NCR, Philippines

Minor in Data Science and Analytics

TECHNICAL SKILLS


Causal AI Deep Learning
Representation Learning Meta-Learning
Python PyTorch Scikit-learn
Pandas SQL Spark Git/Github
AWS/GCP


LANGUAGES

English (TOEIC-IP: 965) Filipino
Japanese Mandarin Chinese

AWARDS & CERTIFICATIONS

 **Monbukagakusho (MEXT) Scholarship**
Japanese Government (2023-2026)

 **Director's List Scholarship**
Ateneo de Manila University
(2014-2019)

 **Student Travel Grant**
American Geophysical Union (2016)

 **Certified Spark NLP Data Scientist**
John Snow Labs (Jan 2022)