

# AHMED T. HAMMAD

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Nationality: Italian

DATA SCIENTIST | QUANTITATIVE RESEARCHER | LECTURER

INTRODUCTION

PhD in Causal Machine Learning with 10+ years of expertise in data science, and quantitative research. Proven track record in delivering impactful AI systems, leading data projects, and teaching data science to diverse audiences. Proficient in Python, R, SQL, and cloud technologies. Passionate about driving data-driven insights. Developer and maintainer of the libraries *pbox*, *rgcapi*, *pygcapi*. Creator of R-Genius GPT.

Expertise: Time Series Modeling, Causal Machine Learning, Incremental Learning, Algorithmic Trading,  
Tech Skills: Python, R, SQL, GCP, Mlflow, Docker, Redis, API, Linux, Git, Makefiles, Prompt Engineering.

PROFESSIONAL  
EXPERIENCE

**Lead Data Science Instructor** | Le Wagon, Singapore & Bali (April 2022 – Current)  
Delivered intensive data science bootcamps covering Python, SQL, Machine Learning, and Deep Learning. Mentored 100+ students in building real-world AI projects and mastering developer workflows, fostering collaboration and project excellence.

- Data Scientist** | *Various Roles (2021 - 2024)*
- **Knight Frank, Indonesia | Indonesia:** Developed a Machine Learning system for real estate pricing predictions.
  - **PT. Mantra Bali | Indonesia:** Designed AI platforms for waste monitoring, quantifying landfill usage with real-time analytics.
  - **Simile | Timor-Leste:** Improved climate disaster alerts using machine learning to enhance community preparedness.
  - **Tripper | Indonesia:** Developed crop yield prediction models leveraging remote sensing and time series data.
  - **IoFarmIT | Italy:** Prototyped a cloud database system integrating sensor data for agricultural task automation.

- Project Manager** | *Ipsos & Catholic University of the Sacred Heart | Italy (2013–2018)*
- Managed large-scale program evaluations and survey designs involving 10,000+ respondents.
  - Conducted advanced causal inference analyses to evaluate education policies.

EDUCATION

**PhD in Causal Machine Learning**  
*Catholic University of the Sacred Heart | Milan, Italy (2018–2022)*  
Visiting Researcher at *University of Leeds | Leeds, UK (Nov 2018 – Apr 2019)*  
Thesis: “Causal Machine Learning for Program and Policy Evaluation.”

**MSc in Sociology and Social Research**  
*University of Trento | Italy (2015–2017)* Focus: Econometrics and Causal Modeling

**BSc in Sociology**  
*University of Milan-Bicocca | Italy (2010–2014)* Focus: Statistics, Program and Policy Evaluation

PUBLICATIONS  
selected papers

- Prioritizing COVID-19 vaccine allocation in resource poor settings: Towards an Artificial Intelligence-enabled and Geospatial-assisted decision support framework.** Shayegh S., [...], Hammad, A.T., et al., (2023). Plos One.
- Probabilistic forecasting of remotely sensed cropland vegetation health and its relevance for food security.** Hammad, A.T., Falchetta, G., (2022). Science of The Total Environment (STOTEN).
- Planning universal accessibility to public healthcare in sub-Saharan Africa.** Falchetta, G., Hammad, A.T., Shayegh S. (2020). Proceedings of the National Academy of Sciences (PNAS).

LANGUAGES

English Fluent   Italian Native   Arabic Native   Indonesian Intermediate