

TOM WELLARD NANGOSYAH

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[LinkedIn](#) | [Website](#)

PROFESSIONAL SUMMARY

Analytical professional with six years of experience across data science, project management, and research. Skilled at turning complex data into clear insights that support strategy and operations, with a track record of delivering actionable reporting through dashboards, data pipelines and reports to management, internal and external stakeholders.

TECHNICAL SKILLS

Programming: Python (pandas, NumPy, scikit-learn), R (tidymodels, tidyverse), SQL, Bash, Git

Machine Learning & Statistics: Regression, classification, tree-based methods, clustering, ensemble methods, Bayesian inference, longitudinal analysis, hypothesis testing, experimental design, multivariate and hierarchical methods

Data Engineering: Data pipelines, API integration, Google Sheets automation, Google Looker Studio, dbt, Supabase/PostgreSQL

Bioinformatics: Multi-omics analysis, sequencing data, protein expression, microbiome analysis, Database querying, HPC (VSC/SLURM)

Project Management: Grant writing, budget management, donor reporting, M&E, stakeholder coordination, SOP development, workshop facilitation

Reporting & Communication: KPI dashboards, automated reporting, scenario modelling, financial modelling, Quarto, Markdown

EXPERIENCE

Consultant, Data Scientist (Analytics & Strategy) | EnerGrow | Remote

Sep 2025 – Present

- Built a data pipeline using APIs to extract CRM data from Upya into Google Sheets, engineered derived variables for reporting, and connected to Google Looker Studio to create dashboards for management, operations, and finance teams, improving reporting times for credit team.
- Supporting the dbt/Supabase (PostgreSQL) migration by provisioning infrastructure, building extraction and dbt transformation layers, implementing automated data-quality tests and CI, and validating and operationalizing the pipeline for production.
- Developed a data-driven go-to-market strategy for clean cooking projects, using scenario modelling and sensitivity analysis to support fundraising and investor discussions.
- Liaise with the teams on ongoing data needs around reporting and stakeholder reporting, ensuring the right data is provided to ensure operations, donor and investor reporting is timely.
- Consolidated learnings into reusable analytical frameworks and documentation, contributing to EnerGrow's internal data practices and knowledge sharing.

Data Science Intern | UHasselt | Belgium

June 2025 – September 2025

- Deployed large language models on the VSC HPC infrastructure, working with SLURM job scheduling and GPU-accelerated environments for model inference for clinical text analysis and prediction.
- Developed a practical guide webpage for UHasselt researchers covering HPC environment setup, model management, and reproducible LLM workflows on shared VSC HPC cluster.

Consultant, Project Management, R&D | EnerGrow | Uganda

Aug 2020 – Jul 2024

- Co-authored data-backed proposals and financial models that secured \$1M+ in grant funding (CLASP, MECS, GIZ, Doen Foundation, Good Energies), translating analytical evidence into compelling narratives for external stakeholders.
- Led a women-led productive-asset financing pilot in Mbale, co-writing and securing a \$260k grant based on evidence from customer and market data.
- Launched EnerGrow's first branch outside Kampala, using demand, repayment, and demographic data to target customers; served 200+ customers and financed \$100k+ in assets.
- Designed Standard Operating Procedures for loan and asset-financing programs, embedding data-driven decision rules and enabling scalable operations in 2 new markets.
- Designed company-wide analytics processes and dashboards across sales, marketing, and credit, integrating data from multiple systems to provide unified performance and risk monitoring.
- Developed credit-scoring models and data-collection tools (Python/Excel/field apps) that kept loan-default rates below 10%, using statistical methods and predictive modelling.

- Coordinated data collection, monitoring, and reporting across marketing and credit teams to ensure donor compliance and generate learnings for subsequent product iterations.

Research & Data Analyst | EnerGrow | Uganda

Feb 2018 – Dec 2019

- Designed, cleaned, and analysed survey and operational datasets from 4,000+ customers, applying statistical methods to segment customers, refine targeting, and shape EnerGrow's early asset-financing model.
- Improved data quality and analysis turnaround; produced recurring management reporting and ad-hoc insights.
- Produced analytical insights that underpinned a \$17k grant from Uganda's Ministry of ICT and a \$76k Utilities 2.0 project, demonstrating the commercial and social value of the model.

Research Associate (Business Consulting) | Inachee | Uganda

Apr 2016 – Dec 2017

- Produced 20+ sector/market analysis reports; turned research and field data into client-ready recommendations and articles for the inachee website.

EDUCATION

MSc Statistics & Data Science Hasselt University | Maastricht University

2025

Thesis: Exploring the Diagnostic and Prognostic Potential of OCT Data in Multiple Sclerosis Using Machine Learning Techniques

BSc Quantitative Economics Makerere University

2017

SELECTED PROJECTS

- Running LLMs on HPC: Practical guide for deploying and managing large language models on the Vlaams Supercomputer (VSC), covering environment setup, SLURM workflows, and best practices.
- MS Diagnostics (Thesis): Applied machine learning techniques to OCT retinal layer data for early detection and prognosis of multiple sclerosis.
- For more works see: <https://nangosyahtomwellard.com/portfolio>

LANGUAGES

English (Fluent)