

# KEOMANY SACKDAVONG

MEAL & Data Science Lead | Python · SQL · Machine Learning · DHIS2 · Power BI

Vientiane Capital, Lao PDR · +856 20 9210 5390 · keomany.sdk@gmail.com



13+

YEARS IN M&E,  
DATA & IT

17

PROVINCES  
(NATIONAL DATA)

6+

YEARS ANALYTICS  
& DASHBOARDS

5+

PROGRAMMES  
MEAL SYSTEMS BUILT

50+

STAFF TRAINED  
& MENTORED

## PROFESSIONAL SUMMARY

MEAL leader and data scientist with a Computer Science foundation and 13+ years across evaluation, analytics and IT. Designs indicator and evaluation frameworks, then builds the analytics behind them — data pipelines, statistical and machine-learning models in Python and SQL, and dashboards that decision-makers act on. Developer-level DHIS2 and advanced Power BI, with a track record in data-quality frameworks, AI and automation, and capacity-building.

**Recent initiative — AI & automation (KSV Academy):** designed and deployed LLM-based agents and automated analysis and reporting workflows, cutting manual data-preparation time across recurring analytical tasks.

## TECHNICAL PROFICIENCY

|                                    |            |
|------------------------------------|------------|
| Python (pandas, NumPy, automation) | Advanced   |
| SQL & Databases                    | Advanced   |
| Machine Learning                   | Proficient |
| Statistical Analysis               | Advanced   |
| Power BI                           | Advanced   |
| DHIS2 (incl. mapping/dashboards)   | Developer  |

## NATIONAL DATA-SYSTEMS REACH

17

OF 18  
PROVINCES



Built and supported national government data systems with the Ministry of Health (CHAS) across all regions of Lao PDR — national DHIS2 platform, analytical reporting and dashboards.

Python

SQL

Machine Learning

Power BI

Tableau

DHIS2

Kobo

Donor Reporting

## CORE COMPETENCIES

### DATA SCIENCE & ANALYTICS

Predictive Modelling & Machine Learning (regression, classification, clustering) · Statistical Analysis & Hypothesis Testing · Data Pipelines, ETL & Database Design · Dashboard Development & Data Visualisation · AI & Automation Workflows · Web Application Development · Tableau · Advanced Excel · SPSS

### MEAL & EVALUATION

Indicator & Results Framework Design · Global Fund and FCDO Donor Reporting · Data-Quality Assessment & Assurance (DQA, HFC, back-checks) · Baseline / Endline Survey Design (Kobo, SurveyCTO) · Data Confidentiality & Governance · Capacity Building for Government Counterparts

## LANGUAGES

|         |           |              |
|---------|-----------|--------------|
| Lao     | ● ● ● ● ● | Native       |
| English | ● ● ● ● ● | Professional |
| Thai    | ● ● ● ● ● | Professional |

## CAREER JOURNEY — CURRENT ROLE

OCT 2024 - PRESENT

### MEAL Team Leader

Health Poverty Action (HPA), Lao PDR · FCDO & Global Fund

- Lead the **MEAL function across 5+ programmes** — indicator frameworks, evaluation design and donor reporting to FCDO and Global Fund — and build the analytics behind them in Python, SQL, Power BI and DHIS2; supervise 2 officers.
- Built an automated **34-check data-quality framework** in Python applied to an **8,000+ record** surveillance dataset, with flagged-record triage, remediation plan and re-check criteria.
- Designed a full-year indicator tracking system covering **16 Global Fund indicators** with automated period, semiannual and annual roll-up logic.
- Train field and partner staff on data systems, quality standards and analytical tools.

## EDUCATION

### B.Sc. Computer Science

#### Soutsaka Institute of Technology

Vientiane Capital · 2009 – 2014

Computer-science foundation in software development, databases, statistics and systems — applied to analytics, modelling and data platforms.

## CERTIFICATIONS

**DQA Assessor** — WHO, 2022

**DHIS2 Data Analysis** — HISP/WHO, 2021

**SurveyCTO Advanced** — 2020

## REFERENCES

### Vannapha Chittavalada

Deputy Country Director, HPA

[v.chittavala@healthpovertyaction.org](mailto:v.chittavala@healthpovertyaction.org)

### Khamsook Phommavongsa

Senior Program Manager, HPA

[k.phommavongsa@healthpovertyaction.org](mailto:k.phommavongsa@healthpovertyaction.org)

### Praphad Syladouangchay

Former Malaria Program Manager

+856 20 9191 8879

## CAREER JOURNEY (CONTINUED)

**JAN 2022 - DEC 2023**

### HIV Data & MERL Officer

**World Health Organization (WHO), Lao PDR** · *Global Fund & WHO HQ*

- Supported the **national DHIS2 platform** and built statistical analysis and dashboards across all 17 provinces with the Ministry of Health (CHAS).
- Led 4 national data-quality cycles (~**30% completeness gain**) and **trained & mentored 50+ government staff** on data systems and reporting.
- Produced statistical analyses and dashboards for Global Fund grants and WHO HQ; applied data-confidentiality standards.

**SEP 2019 - JAN 2022**

### M&E Team Leader & MIS Officer

**Health Poverty Action (HPA), Lao PDR** · *FCDO*

- Led development of the **national MIS** and mobile data systems across 8+ district offices in 4 provinces.
- Administered databases, servers and mobile data tools; managed procurement of IT/MIS resources.
- Coordinated 10+ NGO/CSO data counterparts and produced statistical reports for FCDO.

**NOV 2018 - SEP 2019**

### MEAL Officer

**Humanity & Inclusion (HI), Lao PDR** · *European Union*

- Built data-collection tools and analysis for the EU-funded UXO programme, covering **3,000+ beneficiaries**.
- Produced analytical reports and datasets for HI HQ (Brussels), the National Regulatory Authority and the EU.

**NOV 2015 - NOV 2018**

### IT Officer

**Humanity & Inclusion (HI), Lao PDR**

- Managed network, cloud-server hosting, VPN and data-backup systems — hosting, security and data integrity.

**JUN 2013 - OCT 2015**

### Senior Programmer Analyst

**3SD Development, Lao PDR**

- Developed enterprise web applications and databases; designed server standards and trained junior developers.

**SEP 2011 - DEC 2011**

### M&E Volunteer

**Ministry of Natural Resources & Environment - IWRM Project, Lao PDR**

- Built data-collection tools, verified data integrity and produced analytical reports for senior management.