1. NAME : Dr. Soulasack Vannamahaxay

2. DATE OF BIRTH : 02/12/1989 CITIZENSHIP: Lao

3. EDUCATION :
- PhD in Veterinary Science, Chiang Mai University Faculty of Veterinary Medicine, Lao PRD, 2015 - 2019
- BA in Animal Science, National University of Laos Faculty of Agriculture, Lao PRD, 2006 – 2011
- General Education, Vientiane capital, Laos PDR, 2001 – 2006

4. COUNTRIES OF WORK EXPERIENCE : Lao PDR

5. LANGUAGES

Language	Speaking	Reading	Writing
Lao	Mother tongue		
English	Good	Good	Good

6. EMPLOYMENT RECORD :

FROM: 2012 : To Present

EMPLOYER : Department of Veterinary Medicine, Faculty of Agriculture, National University of Laos

POSITION HELD : Head, Division of Veterinary Medicine

FROM: 2011 : To 2012

EMPLOYER : CP Lao Company Limited

POSITION HELD : Staff

7. WORK UNDERTAKEN *THAT* BEST ILLUSTRATES CAPABILITY TO HANDLE THE TASKS ASSIGNED

• ***Name of assignment or project:*** **Department of Veterinary Medicine, Faculty of Agriculture, National University of Laos**

Year: 2012 - Present; *Location:* Lao PDR*; Client/Donor*: National University of Laos

Positions held: **Head, Division of Veterinary Medicine**

Activities performed: (i) Head of Animal hospital and Veterinary laboratory Division, Department of Veterinary Medicine; (ii) Teaching of Veterinary Virology, Pathology of veterinary, Laboratory of veterinary, Zoonotic disease; (iii) Attended several teacher training sessions.

• ***Name of assignment or project:*** **Asia Pacific Consortium of Veterinary Epidemiology (APCOVE) Phase II, funded by University of Sydney *Year:* 2025 – Present; *Location:* Asia Pacific; *Client/Donor*: APCOVE**

***Main project features*:** The Asia Pacific Consortium of Veterinary Epidemiology (APCOVE) was established in 2020 to build veterinary epidemiology capacity across the Asia Pacific region. Led by the University of Sydney, APCOVE brings together over 50 animal health experts from all veterinary schools in Australia and New Zealand, and eight partner countries: Cambodia, Laos, Indonesia, Malaysia, Papua New Guinea, the Philippines, Timor-Leste, and Vietnam.

Positions held: **Country Partner**

Activities performed: Building on the partnerships developed in APCOVE II 's first phase. Participating in further enhancing veterinary epidemiology and One Health capacities across the region to prevent, detect, and respond to disease outbreaks that impact human health, animal health, and farmer livelihoods. Participating in addressing critical gaps that are essential for the effective management of infectious diseases and work at the animal-human-environmental interface.

• ***Name of assignment or project:*** **Mekong One Health Innovation Program (MOHIP), USAID**

***Year:* 2024; *Location:* Lao PDR; *Client/Donor*: USAID**

***Main project features*:** MOHIP, a program implemented by Michigan State University, is improving public health security in Lao PDR, Thailand, and Viet Nam by strengthening use of the One Health approach in Mekong countries. This program aims to connect U.S. health experts with Mekong researchers to create a transnational health security network in the Mekong sub-region to enable sharing of tools and resources on One Health related issues. MOHIP will also support health-related research through grants to organizations in Mekong partner countries. MOHIP also seeks to build people-to-people engagement between Mekong and U.S. researchers to foster partnership and collaboration.

Positions held: **Principal Investigator**

Activities performed: Design and conduct Brucellosis epidemiological surveys in target provinces in Laos; Identify survey sites, select livestock population samples (buffalo, cattle, pigs, goats), and collect samples; Establish a continuous Brucellosis surveillance system in livestock farms, slaughterhouses, and veterinary clinics; Conduct regular internal audits to assess compliance with ISO 17025. Review procedures for developing SOPs, recording records, handling samples, and reporting results.

• ***Name of assignment or project:*** **Assessing the Effectiveness of Fasmex in Treating *Fasciola gigantica* Infected Cattle, Laos PDR *Year:* 2023; *Location*: Lao PDR; *Client/Donor*: Hanpoong industry**

***Main project features*:** To evaluate the efficacy of Fasmex (triclabendazole medicated molasses blocks - MMB) in controlling *Fasciola gigantica* in smallholder cattle in Lao PDR. To develop a liver parasite management strategy suitable for farm conditions without livestock facilities for animal control. To create a method of nutritional supplementation and simultaneous parasite treatment for smallholder farmers.

Positions held: Principal Investigator

Activities performed: Manage the process of collecting, processing, and storing fecal samples in compliance with ISO 17025 standards. Establish the process of collecting fecal samples from 24 cattle at Weeks 1, 4, 8, 12; Develop detailed Standard Operating Procedures (SOPs) for all aspects of the experiment including: (1) Fecal sample collection & processing; (2) Sedimentation test procedure; (3) FEC calculation; (4) QC procedures; (5) Data recording; (6) Result reporting.

• ***Name of assignment or project:*** **Customized Poultry Disease Diagnosis Solution for Small-scale Farms in Lao PDR, funded by Good Farmers and KOICA *Year:* 2023 - 2026; *Location*: Lao PDR; *Client/Donor*: KOICA**

***Main project features*:** The project aims to assist smallholder farmers across Laos by providing solutions for poultry disease diagnosis. This is particularly relevant as poultry production is widespread in the country, and diseases like Avian Influenza and Newcastle disease pose significant risks to local populations and livelihoods.

Positions held: **Project Coordinator**

Activities performed: Surveillance for diseases like Highly Pathogenic Avian Influenza (HPAI) is ongoing in live bird markets and villages, aiming to understand disease epidemiology and manage risk effectively.

• ***Name of assignment or project:*** **Strengthening Capacity to Prevent and Respond to Livestock Diseases in Xiengkouang and LuangPrabang, Laos Project** ***Year:*** **2023;** ***Location:*** **Lao PDR;** ***Client/Donor*****: Xiengkouang and LuangPrabang provincial government** ***Main project features*****: Strengthening Capacity to Prevent and Respond to Livestock Diseases** ***Positions held:*** **Project Coordinator**

Activities performed: Participate in preparing training plan, training need assessment, training materials, providing training services and write related reports.

• ***Name of assignment or project:*** **Investigating the Burden and Practices of Pig Parasites in Taenia Solium Hotspots in Northern Lao PDR, funded by ACIAR** ***Year:*** **2021 - 2023;** ***Location*****: Lao PDR;** ***Client/Donor*****: ACIAR**

Main project features**:** The project is to investigate the cultural consumption of raw or undercooked pork, poor sanitation, and free-ranging pig production.

Positions held: **Head of Veterinary Team**

Activities performed: Administering anthelmintic (worming) treatments to both humans and pigs to break the parasite life cycle. This "one health" approach was the first such intervention demonstrated globally to impact the adult T. solium parasite in human hosts. Developing easier ways to identify high-risk areas using risk factors and population data to better target interventions.

• ***Name of assignment or project:*** **Scaling up One Health Interventions in Lao PDR, funded by ACIAR**

Year: **2022;** ***Location*****: Lao PDR;** ***Client/Donor*****: ACIAR**

Main project features**:** One Health focuses on sustainable health for humans, animals, and ecosystems. The approach has been well demonstrated, yet most efforts have not been scaled up. Understanding the organizations involved in scaling up processes is critical to translating research into practice.

Positions held: **National Coordinator**

Activities performed: Collect the data from organizations involved in One Health projects over the past five years through key-informant interviews or workshops. The network was investigated using a mixture of quantitative network analysis and qualitative thematic analysis.

• ***ADB–GMS Cross-Border Livestock Health and Value Chains Improvement Project, Slaughtering and***

Meat Inspection National Consultant

Year: 2020, **Lao PDR; Client*****/Donor*****: ADB**

Main project features**:** Work focused on assessing slaughterhouse operations, evaluating hygiene compliance, and identifying critical gaps in infrastructure, worker practices, and regulatory enforcement. I conducted extensive field missions across provincial and district slaughter facilities, documenting risk points along the slaughtering process, including ante-

mortem inspection, stunning, slaughter, evisceration, carcass handling, and waste management. Based on these assessments, I helped design practical recommendations aligned with OIE/FAO guidelines for Good Hygienic Practices (GHP), Good Manufacturing Practices (GMP), and Hazard Analysis and Critical Control Points (HACCP).

Positions held: Meat Inspection National Consultant

• ***Name of assignment or project:*** **The Lao Quality Beef Initiative (LQBI) Project funded by New Zealand Govt** ***Year:*** **2019;** ***Location*****: Lao PDR;** ***Client/Donor*****: New Zealand Govt**

Main project features**:** The Project's objectives are to enhance food security, productivity, and rural livelihoods through improved farming techniques like better housing, silage production, and crossvisits for farmers to learn from each other. The initiative aims to shift traditional farming practices to a more productive and efficient model, supported by both Lao and New Zealand institutions and funding agencies.

Positions held: **Trainer for Meat Inspector**

Activities performed: Prepare training plan, training need assessment, training materials, provide training services and write related reports.

• ***Name of assignment or project:*** **Surveillance System of FMD, DLD Thailand** ***Year:*** **2017;** ***Location*****: Laos;** ***Client/Donor*****: DLD Thailand**

Main project features**:** The Department of Livestock Development (DLD) Thailand employs a comprehensive Foot-and-Mouth Disease (FMD) surveillance system that integrates both active and passive surveillance, laboratory testing, and modern digital tools like a National Animal Identification System (NID) and e-movement traceability to support disease control and eventual eradication. ***Positions held:*** **Trainer**

Activities performed: Prepare training plan, training need assessment, training materials, provide training services and write related reports.

• ***Name of assignment or project:*** **Strengthening Village Veterinary Workers (VVWs) in 11 Villages, HueyJium Area, Xaythany District, Vientiane; Eco-Health Project, funded by Veterinarians Without Borders (VWB) Canada**

Year: From 2012 to 2014, the Eco-Health project aimed at strengthening the capacity of Village Veterinary Workers (VVWs) across 11 villages in the HueyJium area of Xaythany District, Vientiane. In this role, I was responsible for delivering practical training programs on animal health, zoonotic disease prevention, basic clinical procedures, vaccination techniques, and community-based reporting of animal diseases. I facilitated hands-on sessions focused on poultry and livestock husbandry, biosafety, outbreak recognition, and appropriate responses during disease events. My work also included developing training materials tailored to local contexts, mentoring VVWs during field activities, and promoting Eco-Health principles to enhance collaboration between community members, local authorities, and animal health services. ***Positions held:*** **Veterinary Team and Trainer**

• ***Name of assignment or project:*** **CP Lao Company Limited**
Year: **2011 – 2012; *Location*: Laos; *Client/Donor*: CP Lao Company Limited** ***Positions held:*** **Technical staff**
Activities performed: (i) Pig Farm management of CP Lao Company in the Vientiane capital; (ii) Monitoring and planning of feeding, vaccination, animal health, quality management and assessment of the situation for first day until the sale time.

8. PUBLICATION

1. Co-author: Archawakulathep, A., Kim, C. T. T., Soulasack,V., D., Handijatno, D., Hassim, H. A., Rovira, H. R., Aung, M. (2014). Perspectives on antimicrobial resistance in livestock and livestock products in ASEAN countries. The Thai Journal of Veterinary Medicine 44.1: 5.
2. Co-author: T., Mudsak, A., Srikok, S., Vannamahaxay, S., Chotinun, S., & Chuammitri, P. (2018). Differential gene expression in heterophils isolated from commercial hybrid and Thai indigenous broiler chickens under quercetin supplementation. Journal of Applied Animal Research 46(1):804812DOI: 10.1080/09712119.2017.1405814
3. Co-author: Larkins, A., Vannamahaxay, S., Puttana, V., Chittavong, M., Southammavong, F., Mayxay, M., & Ash, A. (2024). Scaling up One Health: A network analysis in Lao PDR. One Health, 18, 100661.
4. Vannamahaxay. S., Chuammitri, P. (2017). Update on Canine Parvovirus: Molecular and Genomic
   Aspects, with Emphasis on Genetic Variants Affecting the Canine Host. Kafkas Univ Vet Fak Derg, DOI: 10.9775/kvfd.2017.17673
5. Vannamahaxay, S., et al. (2017). Molecular characterization of canine parvovirus in Vientiane, Laos. Archives of virology 162.5: 1355-1361.
6. Vannamahaxay S, Chuammitri P, Sornpet B, Pringproa K, Patchanee P. (2020). Detection and characterization of microRNA expression profiling and its target genes in response to canine parvovirus in Crandell Reese Feline Kidney cells. PeerJ 8: e8522, DOI 10.7717/peerj.8522
7. Vannamahaxay, S., Sornpet, B., Pringproa, K., Patchanee, P., & Chuammitri, P. (2022). Transcriptome analysis of infected Crandell Rees Feline Kidney (CRFK) cells by canine parvovirus type 2c Laotian isolates. Gene, 822, 146324.

Dr. Soulasack Vannamahaxay **Signature**