

Vitchakorn Poonyakanok, MD, MS

Summary

Physician-technologist bridging clinical care and data science — I build deployed clinical AI/analytics and bring clinical credibility (ML, data governance, cybersecurity) to health-data teams.

Education

- Aug 2026 **M.S. in Health Care Analytics & IT**, *Heinz College, Carnegie Mellon University, PA, USA*
- 2025–2026 **M.S. in Digital & AI Health Systems (DigiHealth)**, *Faculty of Medicine & Engineering, Chulalongkorn University, Thailand*
- 2024–2026 **Residency in Preventive Medicine (Travel Medicine)**, *Institute of Preventive Medicine, DDC, MOPH, Thailand, on leave Aug 2026 for graduate study*
- 2013–2019 **Doctor of Medicine (MD)**, *Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand*
International clinical elective via IFMSA SCOPE — Universidad de Chile, Santiago (2017).

Work Experience

- 2024–2026 **General Practitioner (Travel Medicine)**, 🏢 *ODPC 6 (Department of Disease Control), Pattaya, Thailand, on leave Aug 2026 for graduate study*
 - Provide pre-travel consultations, vaccine administration, and health risk analysis.
 - Serve as site physician for the WHO Enhanced Gonococcal Antimicrobial Surveillance Programme (EGASP).
- 2022–2024 **General Practitioner**, 🏢 *Bamrasnaradura Infectious Diseases Institute, Nonthaburi, Thailand*
 - Led outpatient and ARI clinic services through major COVID-19 and mpox outbreak responses.
 - Analyzed patient flow logs in Python to surface clinic bottlenecks; reported findings and recommendations to supervisors.
- 2019–2022 **General Practitioner (Intern)**, 🏢 *Nong Khai & Si Songkhram Hospital, Thailand*
 - Managed emergency, inpatient, and general services at Si Songkhram Community Hospital.
 - Completed rotations in emergency medicine, surgery, pediatrics, and OB-GYN.

Publications

- 2025 **MMR-Related Mumps Cluster in Nursing Students, Bangkok**
S. Lertsakulbunlue, D. Srithammavong, K. Tepsittha, H. Kanjanasombut, **V. Poonyakanok**, et al. *JTM*
- 2024 **Methanol Intoxication Outbreak from Illegal Liquor in Bangkok**
C. Jitpeera, W. Rongdech, K. Raruenroeng, **V. Poonyakanok**, et al. *WESR*

Selected Projects

- 2026 **DDS Chatbot: (live demo)** Guardrailed Thai disease-surveillance LLM assistant for the Dept. of Disease Control; LLM tool-calling over an aggregate, PII-free data mart, with defense-in-depth guardrails.
- 2025 **Altitude Itinerary Analyzer: (altit.app)** Full-stack clinical decision support web app designed to parse and analyze travel itineraries for altitude sickness risk assessments.
- 2024 **Thai HospSearch: (hoscode.vercel.app)** Lookup tool mapped to the Thai healthcare administrative hierarchy (Region to Subdistrict) to streamline administrative coding and records checking.

Training

- 2026 **Super AI Engineer Season 6, AIAT (Artificial Intelligence Association of Thailand)**, Thailand, Advanced AI Level 2 (Selected 150 from 10,000+ applicants)
Achievements: Kaggle Rank #1 (Demand Forecasting), Rank 16/166 (Parasite Eggs YOLOv8+DINOv2), wearable running posture monitor (Arduino TinyML/BLE), and Edge-AI CCTV traffic analytics (Jetson Nano).

Certificates

Security & Cloud: TPQI Cloud Dev L5, ISC2 Certified in Cybersecurity (CC), Huawei Cloud HCCDA, THNCA Security, Google Cybersecurity

Data & AI: Super AI Practitioner, Certified Professional Data Analyst, Google Advanced Data Analytics

Research & Medical: CITI Biomedical Researchers, MOPH Epidemiology & Biostatistics, ISTM Travel Medicine, Clinical Epidemiology & Statistics (Chiang Mai University)

Technical Skills

Programming & Statistics: Python, R, SQL, STATA

Data Science & AI: Scikit-Learn, boosting ensembles (XGBoost, LightGBM, CatBoost), AutoGluon, PyTorch, YOLO

Visualization & Mapping: Tableau, Looker, Power BI, Matplotlib, Seaborn, QGIS, Photoshop, Inkscape

Software & Systems: Firebase, GCP, Git, UML, Arduino, TinyML, Data Interoperability, Data Governance

Languages: Thai (Native), English (TOEFL iBT 91/120, Duolingo 120/160)