

Joseph Tsung-Shu Wu, PhD

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Head of Research & Innovation and Acting Head of Programmes, Luke International · Mzuzu, Malawi · ORCID 0000-0001-6155-9340 · jwu.zeitgeistdnc.nl

Epidemiologist and digital health specialist, based in Malawi continuously since 2007. Work spans the health information systems that run national programmes, the disease surveillance that detects outbreaks, and the institutional arrangements that keep government platforms running. Member of the WHO Roster of Experts in Digital Health and Innovation; co-chair of the Health Information System architecture subcommittee of Malawi’s Ministry of Health since 2010.

POSITIONS

2026–	Luke International, Norway	Head of Research, Innovation, Monitoring and Evaluation Department.
2025–	Luke International, Malawi	Acting Head of Programmes. Director of Research Department, Sep–Dec 2025.
2019–	Ministry of Health, Malawi / Luke International	Senior Digital Health Technical Advisor.
2018–	Ministry of Health, Malawi / Luke International	Official contact person to the Global Health Security Agenda (GHSa).
2017–	University of Livingstonia, Malawi	Expatriate lecturer.
2015–	National Taiwan University	Adjunct instructor, Department of Public Health.
2008–	Mzuzu University, Malawi	Senior lecturer (adjunct), Department of Biomedical Science.
2020–23	Ministry of Health, Malawi	Acting Manager, Public Health Emergency Operation Centre, COVID-19 response.
2008–15	Luke International, Malawi	Country Representative; Acting Regional Representative for Southern Africa, 2013–15.
2007	Taiwan Medical Mission, Malawi	Epidemiologist on Taiwan’s public health alternative service, Mzuzu Central Hospital.

APPOINTMENTS AND AFFILIATIONS

2019–	Member, Roster of Experts in Digital Health and Innovation, World Health Organization.
2010–	Co-chair, Health Information System architecture subgroup, Ministry of Health, Malawi.

EDUCATION

2015–26	PhD, Informatics	Department of Informatics, Faculty of Mathematics and Natural Sciences, University of Oslo, Norway. Thesis on establishing the One Health Surveillance Platform to facilitate electronic integrated disease surveillance and response in Malawi.
2004–06	MSc, Epidemiology	Graduate Institute of Epidemiology, College of Public Health, National Taiwan University.
2003	BSc, Public Health	School of Public Health, China Medical University, Taiwan.

TECHNICAL LEAD AND ADVISORY

2024–	AIMS: advanced HIV disease improvement through MaHis strengthening. Bill & Melinda Gates Foundation.
2023–24	Core support to the Digital Health Division, Ministry of Health, Malawi. Bill & Melinda Gates Foundation.
2023–24	Routine immunisation microplanning; interoperability between DHIS2, eBRS, eVax and eIDSR. UNICEF.
2016–23	Kuunika: Data for Action in Malawi. Bill & Melinda Gates Foundation.
2015–23	Quality of care and health impact through integrated information system technologies. PEPFAR / US CDC.

TEACHING

Epidemiology, global health, research methodology and health informatics. Mzuzu University, Malawi, since 2008; National Taiwan University, since 2015; University of Livingstonia, Malawi, since 2017.

RECOGNITION

2024	Personal Medical Contribution Award, 34th Medical Contribution Awards, Taiwan.
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SELECTED PUBLICATIONS

- Thawani A, Ngwira S, Masoambeta J, et al, **Wu TSJ**. Public acceptance of digital health surveillance tools in Malawi: evidence from a multi-district household survey. *BMC Digital Health* 2026;4(1):32. — senior author
- Wu TJ**, Mvula MV, Chado EKK, et al, Bjune GA, Kaasbøll JJ. Establishing One Health Surveillance Platform for electronic integrated disease surveillance and response in Malawi: action design research study. *JMIR Public Health and Surveillance* 2026;12:e72029. — first and corresponding author
- Ndemera I, Hsieh YTS, Chirwa K, et al, **Wu JTS**, et al. Describing a national chatbot deployed by the Ministry of Health in Malawi during the COVID-19 pandemic: retrospective data analysis. *Journal of Medical Internet Research* 2026;28:e80960.
- Chirambo GB, Thompson M, Hardy V, et al, **Wu TSJ**, O’Donoghue J. Effectiveness of smartphone-based community case management on urgent referral, reconsultation and hospitalisation of children aged under five in Malawi: cluster-randomised, stepped-wedge trial. *Journal of Medical Internet Research* 2021;23(10):e25777.
- Zao JKK, **Wu JTS**, Kanyimbo K, et al. Design of a trustworthy cloud-native national digital health information infrastructure for secure data management and use. *Oxford Open Digital Health* 2024;2:oqae043. — second author
- Wu TSJ**, Kagoli M, Kaasbøll JJ, Bjune GA. Integrated Disease Surveillance and Response (IDSR) in Malawi: implementation gaps and challenges for timely alert. *PLOS ONE* 2018;13(11):e0200858. — first and corresponding author
- Wu TS**, Shih FY, Yen MY, et al, King CC. Establishing a nationwide emergency department-based syndromic surveillance system for better public health responses in Taiwan. *BMC Public Health* 2008;8:18. — first author; the first nationwide real-time syndromic surveillance system in Asia

Full publication list: orcid.org/0000-0001-6155-9340

LANGUAGES

English and Mandarin.