



Myo Minn Oo

MBBS, Ph.D.

he/him | 0000-0003-4089-016X | Myo-Minn-Oo | myominnoo | myominnoo

An Epidemiologist, Implementation Scientist, Global Health Researcher with expertise in STBBI/HIV, underserved populations, health equity gaps through robust methodological frameworks and ethical lens. Skilled in R programming and data product development.

Research Interests

STBBI/HIV (in Sex workers, gbMSM), Implementation Science, Health Services Research (in Underserved Populations - Migrants, Indigenous Peoples), Global Health System, Data Science, HEOR.

Work/Research Experiences

Waapihk Research

Winnipeg, CA

DIRECTOR OF RESEARCH

May 2025 - Present

- Direct multiple health and education projects at Waapihk Research, one of the largest Indigenous-led health economics firms.
- Provide strategic research direction, oversee design and delivery, and ensure timely, high-quality outputs.
- Lead and mentor a multidisciplinary team while representing the firm with clients, partners, and policymakers.

Unity Health Toronto | St. Michael's Hospital

Toronto, CA

SENIOR RESEARCH ASSOCIATE

Apr 2024 - Apr 2025

- Conducting intervention research for HIV/STBBI prevention to bridge health inequity gaps.
- Evaluated global evidence on clinical decision tools for predicting HIV risk and PrEP eligibility, laying the groundwork for future HIV prevention research projects and a CIHR grant application.
- Expanding expertise in meta-analysis, latent class analysis, and missing data imputation using MICE.
- Leading quality improvement studies in clinical settings to enhance HIV and sexual healthcare and service delivery.

Waapihk Research

Winnipeg, CA

EPIDEMIOLOGIST

Oct 2023 - Mar 2024

- Produced actionable insights for targeted interventions through scoping reviews on harm reduction interventions for underserved populations in remote rural areas.
- Improved the 2018 healthcare fiscal analytics for northern Manitoba communities with recommendation insights for equitable healthcare delivery.
- Produced comprehensive population health reports on northern Manitoba communities for evidence-based decision-making.

University of Manitoba

Winnipeg, CA

POSTDOCTORAL FELLOW

May 2022 - Oct 2023

- Led epidemiological analysis projects in Kenya on HPV transmission among MSM and female sex workers.
- Set up bioinformatics pipelines for RNAseq analysis and trained students in their use.
- Collaborated with local health organizations (PHDA, HOYMAS) to improve healthcare access and outcomes for marginalized populations in Nairobi.
- Created data products, dashboards and Shiny apps for research monitoring, contributing to peer-reviewed publications and successful grants.

Swiss Tropical and Public Health Institute | University of Basel

Basel, Switzerland

POSTDOCTORAL SCIENTIFIC COLLABORATOR

Aug 2021 - April 2022

- Conducted feasibility studies on under-five mortality calculation through malaria surveys in Papua New Guinea.
- Produced a technical report on malaria preparedness, providing evidence for national health strategies.

Papua New Guinea Institute of Medical Research

Goroka, Papua New Guinea

SENIOR RESEARCH FELLOW

Aug 2021 - April 2022

- Directed the 2021 National Health Facility Survey, ensuring timely completion and delivery.
- Developed and implemented an automated dashboard for real-time survey monitoring.
- Delivered technical consultations to the National Technical Working Group on Malaria.
- Completed a draft for an automated report for the 2021 Health Facility Survey.
- Conceptualized a QR linkage system for implementation in the upcoming malaria indicator survey.

Prince of Songkla University

DOCTORAL STUDENT (CAREER BREAK)

Hat Yai, Thailand

Aug 2018 - Jul 2021

- Completed a PhD with 3-year full scholarship, publishing five first-authored papers on migrant health and health services research.
- Conducted 2-year field research at the border area, contributing to policy recommendations for underserved migrant healthcare.
- Received international recognition for research on health insurance and TB treatment among migrant workers.

The Union, South-East Asia Office

RESEARCH FELLOW & TECHNICAL AIDE (BASED IN MYANMAR)

Mandalay, Myanmar

Aug 2016 - Jul 2018

- Led/co-led over 20 research projects across Myanmar, Bhutan, Nepal, India, and China.
- Mentored more than 10 professionals in implementation research through the SORT-IT program.
- Authored and contributed to over 25 publications in international peer-reviewed journals.
- Organized and led the third National SORT-IT course, as well as a workshop on TB research agenda in Myanmar.

The Union, Country Office

MONITORING & EVALUATION OFFICER/MANAGER

Mandalay, Myanmar

May 2014 - Jul 2016

- Spearheaded the Monitoring and Evaluation Unit responsible for maintaining records of 35,000+ clients in HIV/TB programs.
- Enhanced HIV care services by implementing evidence-based practices, including attrition analysis and optimizing the patient tracing system for better retention outcomes.
- Successfully completed a one-year SORT-IT training program and published my first paper as the primary author, overcoming significant health challenges and personal obstacles during that time.

The Union, Country Office

HIV MEDICAL OFFICER

Mandalay, Myanmar

Feb 2014 - Dec 2015

- Provided direct medical care to over 50 patients daily, managing TB/HIV treatments and other opportunistic infections.
- Authored my first survival analysis study of clients living with HIV who disengaged from care, presenting findings at national conferences.

Education

Prince of Songkla University

PH.D. EPIDEMIOLOGY

Hat Yai, Thailand

Aug 2018 - Nov 2021

- Dissertation: "Myanmar Migrants with Tuberculosis: Health Insurance, Delays in Access to Healthcare, Model of Care on Treatment Outcomes and Quality of Life in a Border Area of Thailand and Myanmar"
- Advisor: Prof. Tippawan Liabsuetrakul
- Committee: Dr. François Henry Nosten (Chair), Hon. Prof. Virasakdi Chongsuvivatwong, Prof. Sawitri Assanangkornchai, Dr. Wit Wichaidit
- Passed with excellent evaluation remarks.

The Union, MSF Luxembourg, WHO-TDR

STRUCTURAL OPERATIONAL RESEARCH INITIATIVE (SORT-IT) TRAINING COURSE

Nepal & Sri Lanka

Mar 2016 - Dec 2016

- Research project: "Alarming attrition rates among HIV-infected individuals in pre-antiretroviral therapy care in Myanmar, 2011–2014" (doi: 10.3402/gha.v9.31280)

University of Medicine

MBBS

Mandalay, Myanmar

2007 - 2012

- Evaluated vital statistics of a remote township in Myanmar that is among the most under-developed and remote areas of the country

Publications

Since 2016, I have authored **48 peer-reviewed articles**. As of 28 January 2026, my work has an **h-index** of **17** and a total of 757 citations, according to Google Scholar. See *my Google Scholar profile*.

Academic and Research Services

Academic Editor: PLoS One (2022 - Present)

Affiliate: Prince of Songkla University (2018 - 2021)

Editorial Board: Public Health Challenges (2021 - Present)

Member: National Technical Working Group (Malaria) (2021 - 2022) • PNGIMR Research Network (2021 - 2022) • SORT-IT OR Network, Myanmar Society of Epidemiology (MSE), Myanmar Medical Association (MMA) (2016 - Present)

Mentor: SORT-IT Research Training Courses (2015 - 2018) • The International AIDS Society Conferences (2016 - Present)

Myanmar R User Group (Monthly Meetup): Virtual (2022 - 2024)

Peer Reviewer: 50+ Verified Reviews in International peer-reviewed journals (2016 - Present) • PLoS One (2016 - Present) • BMC Health Service Research (2016 - Present) • Public Health Action (2016 - Present) • Global Health Research and Policy (2016 - Present) • Journal of Health Research (2016 - Present) • AIDS Research and Human Retroviruses (2016 - Present) • African Journal of AIDS Research (2016 - Present) • International Journal of STD & AIDS (2016 - Present)

R for Researchers (Monthly Meetup): University of Manitoba (2022 - 2023)

Reviewer: Rady Faculty of Health Sciences Graduate Studentship Program (2022 - 2022)

Skills

Bioinformatics: Transcriptomics (RNAseq analysis pipelines)

Data Products: Dashboard Design (R, Shiny, Flexdashboard) • Web App (Shiny Apps, Auth0, AWS)

Data Science: Dimensionality Reduction (PCA, LCA, UMAP, TSNE)

Development: Software Development (CI/CD) • Version Control (Git) • Automation & CICD (Travis CI, GitHub Action) • Web Hosting (Netlify, GitHub) • Shiny app (Golem framework (Rhino))

Language: Burmese (Native) • Lisu (Native) • English (C2) • Chinese (A2) • Thai (A2) • French (A1) • Tok Pisin (A1) • Swahili (A1)

Programming Languages: Python • Database (SQL, MongoDB) • JAVA • JavaScript • BASH • HTML • CSS • Quarto • Markdown • Rmarkdown • YAML

Research: Reproducible Research • Systematic Review • Epidemiology in TB • Lab Training in TB Microbiology • Cohort study design and analysis • Epidemiology in Public Health Practice Specialization (Johns Hopkins Bloomberg School of Public Health, 2020)

Statistical Software: R • Stata

Statistics and Data Science: Longitudinal Data Analysis (GEE, Mixed Models) • Causal Inference (SEM, DAG, causal mediation) • Meta-analysis (Inverse variance) • Epidemiological Methods • Child mortality Estimation • Statistical Modelling • Egocentric Network Analysis • Survey Methods • The Data Scientist's Toolbox (The Johns Hopkins University)

Text Editors: Rstudio/Positron • Visual Studio Code

Communication: data visualization (ggplot2, arcGIS, qGIS) • peer-reviewed publications (journal, conference)

Note

This CV is written in RMarkdown and generated using the `vitae` package with the `awesome-cv` template. The complete source code is available on my GitHub repository.