



Myo Minn Oo

MBBS, Ph.D.

100-Lotherton Pathway, North York, ON M6B 2G8, Canada

he/him | +1 (437) 580-8121 | dr.myominnoo@gmail.com | myominnoo.com | 0000-0003-4089-016X |
Myo-Minn-Oo | myominnoo | myominnoo

Experienced epidemiologist specializing in HIV/STBBI research, using advanced biostatistics and data science to address health inequities. Skilled in R programming and data product development, seeking to apply expertise in an inclusive academic role.

Education

Prince of Songkla University

Hat Yai, Thailand

PH.D. EPIDEMIOLOGY

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

Nepal & Sri Lanka

STRUCTURAL OPERATIONAL RESEARCH INITIATIVE (SORT-IT) TRAINING COURSE

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

Mandalay, Myanmar

MBBS

2007 - 2012

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

Research Interests

Infectious Diseases (HIV/STBBI, TB, Malaria), Implementation Science, Health Services Research, Underserved Populations (Sex workers, gbMSM, Migrants, Indigenous Peoples).

Research Experiences

Unity Health Toronto | St. Michael's Hospital

Toronto, CA

SENIOR RESEARCH ASSOCIATE

Apr 2024 - Present

- 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.

Wapahk Research (Indigenous-led health economics firm)

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

POSTDOCTORAL SCIENTIFIC COLLABORATOR

Basel, Switzerland

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

SENIOR RESEARCH FELLOW

Goroka, Papua New Guinea

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.

Grants, Awards, and Honors

Canadian Institutes of Health Research

University of Manitoba

TISSUE CORRELATES OF HPV CLEARANCE IN WOMEN: IMPLICATIONS FOR THERAPEUTIC HPV VACCINES.

2023-26

- CIHR Operating Grant: Sexually Transmitted and Blood-Borne Infections (STBBI) Research in Canada: Beyond HIV/AIDS and Hepatitis C.
- PI: Lyle McKinnon | Amount: \$450,000

Thailand Education Hub for ASEAN Countries (THE-AC)

FULL DOCTORAL SCHOLARSHIP

Thailand

Aug 2018 - Jul 2021

- Awarded a complete three-year scholarship to pursue a Doctoral degree in Epidemiology.
- Produced a technical report and policy document to inform the Thai government on healthcare access issues for marginalized populations, and organized a dissemination meeting with local, regional, and international stakeholders to share our findings and recommendations.

Health System Research Institute (HSRI), Thailand

RESEARCH GRANT (GRANT NUMBER: 62-082)

Thailand

Jul 2019 - Jan 2021

- Awarded to conduct research and produce policy documents on the topics of health insurance, legal status, and their effects on the health outcomes of Myanmar migrants in Thailand.
- Funding amount: \$20,000 USD

Fogarty International Center, National Institutes of Health, US

RESEARCH GRANT (GRANT NUMBER: D43TW009522)

Thailand

Jul 2019 - Jan 2021

- Awarded for operational fieldwork in the border area between Thailand and Myanmar.
- Funding amount: \$4,000 USD

- Prize: \$100 USD

Publications

Since 2016, I have authored **37 peer-reviewed articles**. As of 11 October 2024, my work has an **h-index** of **14** and a total of 572 citations, according to Google Scholar. See my *Google Scholar profile*.

PEER-REVIEWED ARTICLES

1. Oo, M. M., Moore, S., Gibbons, S., Adhiambo, W., Muthoga, P., Siele, N., Akolo, M., Gebrebrhan, H., Sivo, A., Ball, B. T., et al. (2023). High prevalence of vaccine-preventable anal human papillomavirus infections is associated with HIV infection among gay, bisexual, and men who have sex with men in nairobi, kenya. *Cancer Medicine*, 12(12), 13745–13757.
2. Oo, M. M., Liabsuetrakul, T., Boonathapat, N., Aung, H. K. K., & Pungrassami, P. (2022). Association of health insurance and documentation with stigma and social support among myanmar migrants with tuberculosis before and during thailand's policy on border closure due to COVID-19: A cross-sectional study. *Journal of Racial and Ethnic Health Disparities*, 1–13.
3. Oo, M., Liabsuetrakul, T., Boonathapat, N., Aung, H., & Pungrassami, P. (2022). Treatment success among myanmar migrants with TB in thailand. *The International Journal of Tuberculosis and Lung Disease*, 26(6), 550–557.
4. Oo, M. M., Boonathapat, N., Aung, H. K. K., Pungrassami, P., & Liabsuetrakul, T. (2021). Changes in health-related quality of life and the associated factors among myanmar migrants with tuberculosis: A cohort study. *BMC Infectious Diseases*, 21, 1–8.
5. Oo, M. M., Tassanakijpanich, N., Phyu, M. H., Safira, N., Kandel, S., Chumchuen, K., Zhang, L. M., Kyu, H. A., Sriwannawit, P., Bilmumad, B., et al. (2020). Coverage of tuberculosis and diabetes mellitus screening among household contacts of tuberculosis patients: A household-based cross-sectional survey from southern thailand. *BMC Public Health*, 20, 1–10.
6. Oo, M. M., Tun, N. A., Lin, X., & Lucero-Prisno III, D. E. (2020). COVID-19 in myanmar: Spread, actions and opportunities for peace and stability. *Journal of Global Health*, 10(2).
7. Minn Oo, M., Gupta, V., Aung, T. K., Thu Thu Kyaw, N., Nyunt Oo, H., & Kumar, A. M. (2016). Alarming attrition rates among HIV-infected individuals in pre-antiretroviral therapy care in myanmar, 2011–2014. *Global Health Action*, 9(1), 31280.
8. GIDUTHURI, J. G., KUALAWI, M., MURI, M., ARE, C., GOI, P., OO, M. M., HETZEL, M. W., & POMAT, W. (2022). *Papua new guinea national health facility survey 2021: Availability and quality of malaria case management*.
9. Kyaw, K. W. Y., Oo, M. M., Kyaw, N. T. T., Phyo, K. H., Aung, T. K., Mya, T., Aung, N., Oo, H. N., & Isaakidis, P. (2017). Low mother-to-child HIV transmission rate but high loss-to-follow-up among mothers and babies in mandalay, myanmar; a cohort study. *PloS One*, 12(9), e0184426.
10. Pyakurel, P., Tripathy, J. P., Oo, M. M., Acharya, B., Pyakurel, U., Singh, S. B., Subedi, L., Yadav, K. P., Poudel, M., Pandey, D. R., et al. (2018). Catastrophic health expenditure among industrial workers in a large-scale industry in nepal, 2017: A cross-sectional study. *BMJ Open*, 8(11), e022002.
11. Minn, A. C., Kyaw, N. T. T., Aung, T. K., Mon, O. M., Htun, T., Oo, M. M., Moe, J., Mon, A. A., Satyanarayana, S., & Oo, H. N. (2018). Attrition among HIV positive children enrolled under integrated HIV care programme in myanmar: 12 years cohort analysis. *Global Health Action*, 11(1), 1510593.
12. Aung, Z. Z., Oo, M. M., Tripathy, J. P., Kyaw, N. T. T., Hone, S., Oo, H. N., & Majumdar, S. S. (2018). Are death and loss to follow-up still high in people living with HIV on ART after national scale-up and earlier treatment initiation? A large cohort study in government hospital-based setting, myanmar: 2013-2016. *PLoS One*, 13(9), e0204550.
13. Thiha, S., Shewade, H. D., Philip, S., Aung, T. K., Kyaw, N. T. T., Oo, M. M., Kyaw, K. W. Y., War, M. W., & Oo, H. N. (2017). Early infant diagnosis of HIV in myanmar: Call for innovative interventions to improve uptake and reduce turnaround time. *Global Health Action*, 10(1), 1319616.
14. Wai, P. P., Shewade, H. D., Kyaw, N. T. T., Kyaw, K. W. Y., Thein, S., Si Thu, A., Oo, M. M., Htwe, P. S., Tun, M. M. T., Win Maung, H. M., et al. (2017). Patients with MDR-TB on domiciliary care in programmatic settings in myanmar: Effect of a support package on preventing early deaths. *PLoS One*, 12(12), e0187223.

15. Kyaw, K. W. Y., Satyanarayana, S., Phyo, K. H., Kyaw, N. T. T., Mon, A. A., Lwin, T. T., Aung, T. K., Oo, M. M., Aung, Z. Z., Htun, T., et al. (2018). Uptake of antiretroviral therapy in HIV-positive women ever enrolled into 'prevention of mother to child transmission' programme, mandalay, myanmar—a cohort study. *BMC Pregnancy and Childbirth*, 18, 1–8.
16. Kyaw, N. T. T., Harries, A. D., Kumar, A. M., Oo, M. M., Kyaw, K. W. Y., Win, T., Aung, T. K., Min, A. C., & Oo, H. N. (2017). High rate of virological failure and low rate of switching to second-line treatment among adolescents and adults living with HIV on first-line ART in myanmar, 2005–2015. *PLoS One*, 12(2).
17. Aye, S., Majumdar, S. S., Oo, M. M., Tripathy, J. P., Satyanarayana, S., Kyaw, N. T. T., Kyaw, K. W. Y., Oo, N. L., Thein, S., Thu, M. K., et al. (2018). Evaluation of a tuberculosis active case finding project in peri-urban areas, myanmar: 2014–2016. *International Journal of Infectious Diseases*, 70, 93–100.
18. Thiha, S., Shewade, H. D., Philip, S., Aung, T. K., Kyaw, N. T. T., Oo, M. M., Kyaw, K. W. Y., Wint War, M., & Oo, H. N. (2017). Factors associated with long turnaround time for early infant diagnosis of HIV in myanmar. *Global Health Action*, 10(1), 1395657.
19. Kyaw, N. T. T., Kumar, A. M., Oo, M. M., Oo, H. N., Kyaw, K. W. Y., Thiha, S., Aung, T. K., Win, T., Mon, Y. Y., & Harries, A. D. (2017). Long-term outcomes of second-line antiretroviral treatment in an adult and adolescent cohort in myanmar. *Global Health Action*, 10(1), 1290916.
20. Pelzom, D., Isaakidis, P., Oo, M. M., Gurung, M. S., & Yangchen, P. (2017). Alarming prevalence and clustering of modifiable noncommunicable disease risk factors among adults in bhutan: A nationwide cross-sectional community survey. *BMC Public Health*, 17, 1–11.
21. Thi, A., Shewade, H., Kyaw, N., Oo, M., Aung, T., Aung, S., Oo, H., Win, T., & Harries, A. (2016). Timing of antiretroviral therapy and TB treatment outcomes in patients with TB-HIV in myanmar. *Public Health Action*, 6(2), 111–117.
22. Win, E., Kumar, A., Kyaw, N., Aye, N., Hteik, K., Saw, S., Oo, M., Kyaw, K., Aung, S., & Tun, T. (2018). How many sputum samples should be examined during follow-up of tuberculosis patients in myanmar: Two or one? *Public Health Action*, 8(4), 169–174.
23. Aye, N., Oo, M., Harries, A., Mon, M., Hone, S., Oo, H., & Wan, N. (2018). HIV, HBV and HCV in people who inject drugs and are placed on methadone maintenance therapy, yangon, myanmar. *Public Health Action*, 8(4), 202–210.
24. Phyo, K., Oo, M., Harries, A., Saw, S., Aung, T., Moe, J., Thuya, S., Mon, Y., Min, A., Naing, N., et al. (2019). High prevalence and incidence of tuberculosis in people living with the HIV in mandalay, myanmar, 2011–2017. *The International Journal of Tuberculosis and Lung Disease*, 23(3), 349–357.
25. Kyaw, N., Kumar, A., Kyaw, K., Satyanarayana, S., Magee, M., Min, A., Moe, J., Aung, Z., Aung, T., Oo, M., et al. (2019). IPT in people living with HIV in myanmar: A five-fold decrease in incidence of TB disease and all-cause mortality. *The International Journal of Tuberculosis and Lung Disease*, 23(3), 322–330.
26. Htwe, K. K., Kyaw, N. T. T., Kumar, A. M., Kyaw, K. W. Y., Oo, M. M., Thwin, T., Saw, S., & Aung, S. T. (2019). Pre-treatment loss to follow-up and treatment delay among bacteriologically-confirmed tuberculosis patients diagnosed in mandalay region, myanmar. *Tropical Medicine and Health*, 47, 1–10.
27. Htet, K. M., Soe, K. T., Oo, M. M., Hone, S., Majumdar, S. S., & Oo, H. N. (2019). Early success with retention in care among people living with HIV at decentralized ART satellite sites in yangon, myanmar, 2015–2016. *Frontiers in Public Health*, 7, 124.
28. Wang, T., Zhou, S.-S., Feng, J., Oo, M. M., Chen, J., Yan, C.-F., Zhang, Y., & Tie, P. (2019). Monitoring and evaluation of intervals from onset of fever to diagnosis before “1-3-7” approach in malaria elimination: A retrospective study in shanxi province, china from 2013 to 2018. *Malaria Journal*, 18, 1–8.
29. Tenzin, K., Dorji, T., Choeda, T., Wangdi, P., Oo, M. M., Tripathy, J. P., Tenzin, T., & Tobgay, T. (2019). Internet addiction among secondary school adolescents: A mixed methods study. *JNMA: Journal of the Nepal Medical Association*, 57(219), 344.
30. Kyaw, K. W. Y., Mon, A. A., Phyo, K. H., Kyaw, N. T. T., Kumar, A. M., Lwin, T. T., Aung, Z. Z., Aung, T. K., Oo, M. M., Htun, T., et al. (2019). Initiation of antiretroviral therapy or antiretroviral prophylaxis in pregnant women living with HIV registered in five townships of mandalay, myanmar: A cross sectional study. *BMC Pregnancy and Childbirth*, 19, 1–9.
31. Kyaw, N. T. T., Sithu, A., Satyanarayana, S., Kumar, A. M., Thein, S., Thi, A. M., Wai, P. P., Lin, Y. N., Kyaw, K. W. Y., Tun, M. M. T., et al. (2019). Outcomes of community-based systematic screening of household contacts of patients with multidrug-resistant tuberculosis in myanmar. *Tropical Medicine and Infectious Disease*, 5(1), 2.

32. Min, K. T., Maung, T. M., Oo, M. M., Oo, T., Lin, Z., Thi, A., & Tripathy, J. P. (2020). Utilization of insecticide-treated bed nets and care-seeking for fever and its associated socio-demographic and geographical factors among under-five children in different regions: Evidence from the myanmar demographic and health survey, 2015–2016. *Malaria Journal*, 19, 1–12.
33. Aye, L. L., Tripathy, J. P., Maung Maung, T., Oo, M. M., Nwe, M. L., Thu, H. M. M., Ko, K., & Kaung, K. K. (2020). Experiences from the pilot implementation of the package of essential non-communicable disease interventions (PEN) in myanmar, 2017-18: A mixed methods study. *PloS One*, 15(2), e0229081.
34. Dorji, T., Das, M., Van den Bergh, R., Oo, M. M., Gyamtsho, S., Tenzin, K., Tshomo, T., & Ugen, S. (2019). “If we miss this chance, it’s futile later on”–late antenatal booking and its determinants in bhutan: A mixed-methods study. *BMC Pregnancy and Childbirth*, 19, 1–13.
35. Oo, M. M., Tun, N. A., Lin, X., & Ill, D. E. L.-P. (n.d.). *Cite as: Oo MM, tun AT, lin x, lucero-prisno III DE. COVID-19 in myanmar: Spread, actions and opportunities for peace and stability. J glob health 2020; 10: 020374 COVID-19 in myanmar: Spread, actions and opportunities for peace and stability.*
36. Feng, N., Edwards, J. K., Owiti, P. O., Zhang, G.-M., Rueda Vallejo, Z. V., Hann, K., Zhou, S.-S., Oo, M. M., Geoffroy, E. M., Ma, C., et al. (2021). Operational research capacity building through the structured operational research training initiative (SORT-IT) in china: Implementation, outcomes and challenges. *Infectious Diseases of Poverty*, 10, 1–4.
37. Thiha, S., Shewade, H., Philip, S., Aung, T., Kyaw, N., Oo, M., et al. (n.d.). *Early infant diagnosis of HIV in myanmar: Call for innovative interventions to improve uptake and reduce turnaround time. Glob health action. 2017; 10 (1): 1319616. Epub 2017/06/03. https://doi. org/10.1080/16549716.2017. 1319616 PMID: 28574336.*

SUBMITTED

1. Ahmed, J. I., Krosta, S. J., Reimer, M. N., Cheung, W. C., Mesa, C., Lopez, C., Chua, R., Alsattari, F., Robinson, A., Manguiat, K., Jahan, N., Abrenica, B., Harris, A., Cachero, K., Fabia, R., Walker, J., Oo, M. M., Stein, D., Ji, H., ... Card, C. M. (2024). Improved immune outcomes with extended primary dose intervals of COVID-19 vaccine are overcome by boosters. *JCI Insight*.
2. Oo, M. M., Shukalek, C., Kishibe, T., Hull, M., & Tan, D. (2024). HIV risk assessment tools for identifying individuals who could benefit from pre-exposure prophylaxis: A systematic review protocol. *BMJ Open*.
3. Oo, M. M., Kabir-Bahk, C., Brody, A., Bayoumi, A. M., Krahn, T., Mishra, S., & Tan, D. H. S. (2024). Diagnostic value of serum RPR titre and peripheral CD4 cell count for asymptomatic neurosyphilis in people living with HIV: A systematic review and meta-analysis protocol. *Systematic Reviews*.

BOOKS

1. Oo, M. M. (2023). *Principles and application of evidence-based public health practice: Chapter (16) the need for a paradigm shift to ensure adequate skilled human resources for effective public health practice*. Under Editorial Review @ Elsevier.
2. Oo, M. M. (2020). *A beginner guide to research data collection using EpiData*. Amazon Self-Publishing. <https://www.amazon.com/Beginner-Guide-Research-collection-EpiData/dp/B08F7M67QP>

Data Projects

R package | mStats

DATA MANAGEMENT AND EPIDEMIOLOGICAL DATA ANALYSIS INSPIRED BY STATA

R package | u5mr

ESTIMATING UNDER-FIVE MORTALITY RATES USING INDIRECT METHODS MENTIONED IN UN X MANUAL AND PAPERS BY

RAJARATNAM E.T.

R package | shinyAuthX

SIMPLIFY USER AUTHENTICATION IN SHINY APPS WITH SHINYAUTHX+C6

Shiny App | SCDCS App

DATABASE APP FOR A CLIENT (SECRET GITHUB)

Shiny App | Personal Budget Manager

A SHINY BUDGET MANAGEMENT APP BUILT WITH THE GOLEM FRAMEWORK, FREE USER REGISTRATION, PASSCODE

AUTHENTICATION

Shiny App | COVID-19 Antibody Trajectory App

AN EXPLORATORY APP FOR LONGITUDINAL PROFILING OF COVID-19 ANTIBODIES



Shiny App | XpertMagic

AN APP TO CONVERT RAW OUTPUTS FROM GENE XPERT MACHINE FOR HPV GENOTYPES AND CTNG TO TIDY FORMAT,
PRE-SPECIFIED UPLOAD DATA SIZE



Website | MalCon webpage

A GITHUB STATIC WEBPAGE FOR MALARIA CONTROL UNIT (MALCON) AT PAPUA NEW GUINEA INSTITUTE OF MEDICAL RESEARCH
(PNGIMR)



Dashboard | MalCon Dashboard

AN INTERACTIVE DASHBOARD FOR MONITORING THE HEALTH FACILITY SURVEY 2021 CONDUCTED IN PAPUA NEW GUINEA



Dashboard | HPV Study Dashboard

DASHBOARD TO MONITOR PROGRESS OF GATES-FUNDED HPV STUDY 2022-23



Dashboard | IIQ-2 Study

DASHBOARD TO MONITOR PROGRESS OF IIQ-2 STUDY 2023-24



Website | Personal Webpage

MY OWN PERSONAL WEBPAGE HOSTED IN GITHUB



Presentations

CAHR 2023

ORAL PRESENTATION

Canada

Apr 2023

- Single Cell Transcriptomics Delineate Divergent Localizations Of Tissue-Resident memory T Cells Across The Human Cervical Mucosa

STD/HIV/SRH Collaborative Research Group Annual Review Meeting

ORAL PRESENTATION

Kenya

Jan 2022

- HPV epidemiology and preliminary findings from SWOP HPV Study
- High prevalence of vaccine-preventable anal human papilloma virus infections is associated with treated HIV infection among gay, bisexual, and men who have sex with men in Nairobi, Kenya.

14th Postgraduate Forum of Health Systems and Policy

ORAL PRESENTATION

Virtual

Dec 2020

- Health insurance and out-of-pocket expenditure from symptoms to tuberculosis diagnosis among Myanmar migrants in a border area of Thailand

51st Union World Conference on Lung Health

POSTER PRESENTATION

Virtual

Oct 2020

- Coverage of health insurance schemes among Myanmar migrants with tuberculosis in a border area of Thailand and its associated factors: An interim analysis

US CDC Migration Summit

ORAL PRESENTATION

Singapore

Nov 2019

- Cross-border TB referral system: a case study from Thailand

7th International Health Literacy Conferenc

POSTER PRESENTATION

Vietnam

Nov 2019

- Tuberculosis literacy and completion of household contact investigations: A household-based survey from Southern Thailand

13th Postgraduate Forum of Health Systems and Policy

ORAL PRESENTATION

Indonesia

Jul 2019

- Unsuccessful treatment outcomes after oral direct-acting antivirals in people with chronic hepatitis C virus infection and its associated factors

Ph.D. Candidate examination

ORAL PRESENTATION

Thailand

Feb 2019

- Unsuccessful treatment outcomes after oral direct-acting antivirals in people with chronic hepatitis C virus infection and its associated factors

Mentorship and teaching experiences

St. Michael's Hospital

SUPERVISOR

- Supervised/mentored four undergrads summer students.

Toronto, CA

Jun - Aug 2024

University of Nairobi

INVITED SPEAKER

- Shared a session on data management and analysis in R.

Nairobi, Kenya

44743

Swiss Tropical and Public Health Institute

INVITED SPEAKER

- Shared experiences of Thailand/Myanmar border health control with a focus on TB.

Basel, Switzerland

Oct 2021

Global Public Service Academies Program (USA)

INSTRUCTOR

- Delivered two lectures on the topic of migration and public health with a focus on tuberculosis control, to high school students from Japan, Australia, Canada, and the United States.

Mae Sot, Thailand

Oct 2019 - Feb 2020

University of Community Health

INVITED LECTURER

- Conducted a two-day training workshop on the application of R for medical statistics.

Myanmar/Burma

Feb 2019

SORT IT course

MENTOR

- Provided mentorship to more than 20 international participants.
- Taught data management and applied statistics.
- Created and delivered a lecture on the subject of Effective Research Communication through Infographics.

Sri Lanka, China, Myanmar

Mar 2016 - Jul 2018

The International AIDS Society

ABSTRACT MENTORSHIP

- Providing mentoring to improve the quality of abstracts and increase their chance of acceptance.

The IAS Conferences

2016 - Present

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)

Online Tutorials

1. Create Publication-Ready Tables using gtsummary
2. R Webinars
3. Statistics & Public Health Webinars
4. Git & GitHub Basics
5. Making infographics using MS PowerPoint
6. Data entry using EpiData Manager & EntryClient
7. Introduction to R and RStudio
8. Statistics with R - ENGLISH Version
9. Statistics with R - MYANMAR Version

References

Dr. Darrell HS Tan | Mentor

ASSOCIATE PROFESSOR & INFECTIOUS DISEASES PHYSICIAN

St. Michael's Hospital

darrell.tan@gmail.com

Prof. Lyle McKinnon | Postdoc Supervisor

ASSOCIATE PROFESSOR IN MEDICAL MICROBIOLOGY AND INFECTIOUS DISEASES

University of Manitoba

lyle.mckinnon@umanitoba.ca

Prof. Manuel Hetzel | Postdoc Supervisor

DEPUTY HEAD OF UNIT & PROFESSOR OF EPIDEMIOLOGY

Swiss TPH & University of Basel

manuel.hetzel@swisstph.ch

Prof. Tippawan Liabsuetrakul | PhD Advisor

HEAD OF DEPARTMENT OF EPIDEMIOLOGY & DIRECTOR OF WHO-COLLABORATION CENTER ON EPIDEMIOLOGY

Prince of Songkla University

ltippawa@yahoo.com

Honorary Prof. Virasakdi Chongsuvivatwong | PhD Advisor

ADVISOR & FORMER HEAD, DEPARTMENT OF EPIDEMIOLOGY

Prince of Songkla University

cvirasak@gmail.com

Honorary Prof. Anthony Harries | Mentor

SENIOR ADVISOR & FORMER DIRECTOR OF RESEARCH

The Union

adharries@theunion.org

Prof. Suman Majumdar | Colleague

DEPUTY PROGRAM DIRECTOR (HEALTH SECURITY AND KNOW-C19), CO-HEAD OF THE TUBERCULOSIS ELIMINATION AND IMPLEMENTATION

Burnet Institute

suman.majumdar@burnet.edu.au

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.

