| | |
|---|---|
| Title of PhD project / theme | **Capturing cause of deaths with electronic reporting system in rural communities in Kenya** |
| Supervisory team | Nagasaki Graduate School of Tropical Medicine & Global Health<br>Satoshi Kaneko, Daniel Harrell |
| Brief description of project / theme | Group description:<br>The Department of Eco-Epidemiology is focused on the design and implementation of community-based civil registration and vital statistics (CRVS) systems that can adapt to conditions in rural communities in low to middle-income countries (LMICs). Currently, our group manage two CRVS systems (Health and Demographic Surveillance System) of about 130,000 individuals that longitudinally monitors the births, deaths, marriages, and health indicators of the citizens in Mbita and Kwale areas, Kenya.<br><br>Previously, in addition, we designed and managed a cloud-based CRVS system for births in Kwale County, Coast area of Kenya that registers mothers and infants by using a maternal and child healthcare (MCH) approach.<br><br>Project description:<br>Worldwide, 2/3 of deaths are not registered to their governments and not counted in vital statistics systems. In this project, you will need to design and implement a cloud-based reporting system for deaths that also uses the current WHO verbal autopsy protocol to automatically estimate the cause of death. This project will require an understanding of the local communities and their culture to find the best methodology and setting by which to gather the medical data relating to the deceased.<br><br>By using this system, we hope to characterize the main causes of death affecting these communities based on the personal, medical, and geographic data of our cohort. |
| Particular *prior* educational requirements for a student undertaking this project | Master in Science, Technology, Engineering, or Mathematics or Medical Degree. |
| Skills we expect a student to develop/acquire whilst pursuing this project | Ability to manage and conduct community level surveys<br>Understanding of software design<br><br>Statistical analysis with STATA or R |