Title of PhD project / theme	**Environmental change impact on diets and health in South-East Asia**
Supervisory team	Dr Pauline Scheelbeek, Prof Masahiro Hashizume
Brief description of project / theme	Vulnerable south-east Asian communities are disproportionally affected by global environmental change. The frequency of cyclonic events, storm surges, floods and drought has increased over the past decades, causing livelihood, food security and health challenges for many (poor) communities in affected areas. The project aims to estimate what changes in dietary patterns occur, attributable to environmental change (drought, flood, saline intrusion). Furthermore, it will be assessed wat the short and long-term impacts of these changes are on nutrition related morbidity/mortality. By using several environmental change scenarios, future projections of health impact will be developed. Secondary data mining, analysis and modelling will be a central part of the project. Where possible/useful, qualitative data will be collected to enhance the understanding of quantitative analyses.
Particular *prior* educational requirements for a student undertaking this project	• Good knowledge of statistical modelling • Some knowledge of mathematical, systems, or prediction modelling • Some knowledge of environment – health – food systems interactions • Some experience of working with large databases, data mining and data linking • Basic knowledge of GIS mapping
Skills we expect a student to develop/acquire whilst pursuing this project	New skills: • Dietary pattern analysis • Health modelling based on dietary patterns • Working in interdisciplinary teams Broaden skills: • mathematical modelling • Systems research/modelling • Working with large databases • GIS mapping