



Title of PhD project	<b>North South interactions in food system transformations and their relevance for sustainability, population health and resilience</b>	
Supervisor	<a href="#">Dr Pauline Scheelbeek</a>	LSHTM
Co-Supervisor	<a href="#">Dr Rosemary Green</a>	LSHTM
Co-Supervisor	<a href="#">Mr Tony Carr</a>	LSHTM
Brief description of project	<p>Major food system transformation in the Global North are required to meet global health and environmental target. This involves large shifts from animal sourced to plant-based food production and consumption. While there are major co-benefits of more sustainable diets in the Global North - for health, biodiversity and water use, etc – some negative externalities related to an increased demand in plant-based foods and international trade between the Global South and the Global North are grossly understudied.</p> <p>In this highly quantitative and multidisciplinary PhD project the student will work on a extremely novel and topical research project aiming to map and assess how sustainable diets in the Global North will alter food production, sustainability and population health in the Global South.</p> <p>Using various scenarios of climate change the student will quantify potential externalities, food availability and food prices and translate this into nutrition and environmental consequences in both the Global North and the Global South.</p> <p>The student will work with a team of specialist in sustainable and health food systems at LSHTM and collaborators at partner institutions overseas and will become part of the LSHTM’s Centre on Climate Change and Planetary Health.</p>	
Skills we expect a student to develop/acquire whilst pursuing this project	<p>The student will expand their skills on:</p> <ul style="list-style-type: none"> <li>- Data compilation, management and analysis</li> <li>- Mathematical modelling</li> <li>- Academic writing</li> </ul>	

	<ul style="list-style-type: none"> <li>- Presenting for academic and non-academic audiences</li> </ul> <p>The student will build skills in</p> <ul style="list-style-type: none"> <li>- The use of scenario modelling</li> <li>- The use of the FABLE and GLOBIOM Model (the student will be highly encouraged to apply for the IIASA Summer School during their first year, to benefit from there (paid-for) summer school programmes)</li> <li>- Public engagement</li> </ul>
Particular <u>prior</u> educational requirements for a student undertaking this project	A numerical MSc preferably in Nutrition, Environmental Sciences, Global Health, Health Economics, Maths or Medical Statistics with an interest in Planetary Health.
Project key words	Sustainable food systems; international trade; climate change; water footprints; “just” transitions; resilience
Possible under 1+4 route? Master’s options identified.	Yes LSHTM – MSc Nutrition for Global Health LSHTM - MSc Epidemiology LSHTM - MSc Medical Statistics
MRC Core Skills developed through this project	Quantitative skills Interdisciplinary skills
MRC LID themes	Global Health
Further reading	<a href="#">Multi-dimensional characterisation of global food supply from 1961-2013</a>  <a href="#">UK’s fruit and vegetable supply increasingly dependent on imports from climate vulnerable producing countries</a>