

Giacomo Zanello

CONTACT INFORMATION	School of Agriculture Policy and Development University of Reading Early Gate, Whiteknights Road RG6 6EU Reading (UK)	<i>Phone:</i> +44 (0) 118 378 5038 <i>E-mail:</i> g.zanello@rdg.ac.uk <i>Website:</i> giacomozanello.com <i>Citations:</i> Google Scholar
CURRENT POSITION AND AFFILIATIONS	Head of Department Agri-Food Economics and Marketing Department University of Reading, United Kingdom 2021 -	
	Professor of Food Economics and Health School of Agriculture, Policy and Development University of Reading, United Kingdom 2023 -	
	Deputy Director Graduate Institute for International Development, Agriculture and Economics University of Reading, United Kingdom 2019 -	
	Interim Co-Chair, Independent Expert Group Global Nutrition Report 2023 -	
	Fellow London Centre for Integrative Research on Agriculture and Health London School of Hygiene & Tropical Medicine, United Kingdom 2016 -	
PREVIOUS ACADEMIC EMPLOYMENT	Associate Professor , School of Agriculture, Policy and Development University of Reading, United Kingdom 2019-2023	
	Lecturer , School of Agriculture, Policy and Development University of Reading, United Kingdom 2015-2019	
	Research Fellow , Global Panel on Agr. and Food Systems for Nutrition London School of Hygiene & Tropical Medicine, United Kingdom 2015	
	Research Officer , Department of International Development University of Oxford, United Kingdom 2012-2015	
	Research Fellow , School of Agriculture, Policy and Development University of Reading, United Kingdom 2011-2012	
PREVIOUS AFFILIATIONS	Core Member, Independent Expert Group Global Nutrition Report 2021-2023	
	Research Associate Technology and Management Centre for Development University of Oxford, United Kingdom 2016-2020	
EDUCATION	Ph.D. (Agricultural Economics) University of Reading. Reading, United Kingdom 2012	
	M.Sc. Development Studies (<i>summa cum laude</i>) University of Bologna. Bologna, Italy 2007	
	B.Sc. Business Administration University of Bologna. Bologna, Italy 2004	
CURRENT RESEARCH	Food systems and interactions between smallholder agriculture, nutrition and health.	

RESEARCH GRANTS	BA/Leverhulme Small Research Grants “Linking energy use to household food security in India: An exploratory research” (Co-I, £9,985)	2023
	FCDO-IMMANA Grant “Activity Spaces and Household Exclusion from Food Environments” (Co-I, £249,000)	2022
	FCDO-IMMANA Fellowship “Disentangling the gender dimensions of agriculture-nutrition linkages in India” (PI, £52,000)	2020
	GCRF “Trade, Development and the Environment Hub (TRADE Hub)” (University of Reading PI, £487,810 - total: £18 million)	2019
	GCRF Equitable Resilience “Depleted by debt? Focusing a gendered lens on climate resilience, credit, and nutrition in translocal Cambodia and South India” (University of Reading PI, £60,862-total: £828,114)	2019
	GCRF Substantial Research “Through the Looking Glass: Applying a Gender Lens to Agricultural Transformation, Labour Intensification and Nutrition Outcomes in LMICs” (Co-PI, £30,894)	2019
	GCRF Substantial Research “Breaking the intergenerational cycle of malnutrition, food security and poverty in low-income countries: Making the case for adolescent girls” (PI, £180,544)	2018
	GCRF Rapid Response “Labour productivity in public work programmes: Introducing new technologies for time and motion studies in the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) in India” (Co-I, £34,664)	2018
	GCRF Pump Priming “Automated human activity recognition from accelerometer data in agricultural settings in low and middle income countries (LMICs)” (Co-PI, £2,498)	2017
	DFID-IMMANA “Developing Methods to Improve Nutrition Assessment by Measuring Energy Expenditure” (PI, £249,626)	2016
	ESRC-GCRF “Antibiotics and Activity Spaces: An Exploratory Study of Behaviour, Marginalisation, and Knowledge Diffusion” (University of Reading PI, £249,307)	2016
	ESRC-GCRF Impact Acceleration (Co-I, £7,399)	2016
	EPSRC-GCRF Seed (Co-I, £10,750)	2016
	Research Endowment Trust Fund (University of Reading) (PI, £6,400)	2016
PUBLICATIONS	Bhattacharya, M., Picchioni, F., Zanello, G. , Srinivasan, C.S. (2023). Quantity and quality of physical activity during adolescence: Evidence from a mixed-method study in rural Telangana, India. <i>Journal of Biosocial Science</i> . <i>In press</i> .	
	De Maria, M., Robinson, E., and Zanello, G. (2023). Fair Compensation in Large-Scale Land Acquisitions: Fair or Fail? <i>World Development</i> . 170: 106338.	
	Fadare, O., Zanello, G. , and Srinivasan, C.S. (2023). Stressor or succour? Examining the association between conflict, livestock assets, and farmers mental health in Nigeria. <i>Economics and Human Biology</i> 49: 101234.	
	Hoffman, D., Zanello, G. , Mozaffarian, D. and Micha, R. (2022). Enhancing nutrition action through accountability and transparency. <i>UN-Nutrition Journal</i> 1: 90-93. FAO, Rome.	
	Fadare, O., Zanello, G. , and Srinivasan, C.S. (2022). The joint effect of terrorism and land access on livestock production decisions: Evidence from northern Nigeria. <i>World Development Perspectives</i> 27: 100447.	

- Nyambok, L. O. and **Zanello, G.** (2022). Vignette experiment on the acculturation of internal migrants in the Kenyan Rift Valley. *International Journal of Intercultural Relations* 89: 152-165.
- Assima, A., **Zanello, G.** and Smale, M. (2022). Articulating fertilizer subsidy effects on womens diet quality by food supply source in Mali. *CABI Agriculture and Bioscience* 3: 42.
- Rowland, D., **Zanello, G.**, Waliyo, E. and Ickowitz, A. (2022). Oil Palm and Gendered Time Use: A Mixed-Methods Case Study from West Kalimantan, Indonesia. *Forest Policy and Economics* 137: 102682.
- Conti, C., **Zanello, G.**, and Hall A. (2021). Why are agri-food systems resistant to new directions of change? A systematic review. *Global Food Security* 31: 100576.
- Haenssngen, M. J., Charoenboon, N. and **Zanello, G.** (2021). You've got a friend in me: how social networks and mobile phones facilitate healthcare access among marginalised groups in rural Thailand and Lao PDR. *World Development* 137: 105156.
- Picchioni, F., **Zanello, G.**, Srinivasan, C.S., Wyatt, A. J. and Webb, P. (2020). Gender, time-use, and energy expenditures in rural communities in India and Nepal. *World Development* 136: 105137.
- Brickell, K., Picchioni, F., Natarajan, N., Guermond, V., Parsons, L., **Zanello, G.** and Bateman, M. (2020). Compounding crises of social reproduction: micro-finance, over-indebtedness and the COVID-19 pandemic. *World Development* 136: 105087.
- Zanello, G.**, Srinivasan, C.S., Picchioni, F., Webb, P., Cherukuri, R., Nkegbe, P. and Neupane, S. (2020). Physical activity, time use, and food intakes of rural households in Ghana, India, and Nepal. *Scientific Data* 7: 71.
- Harris-Fry, H., Nur, H., Shankar, B., **Zanello, G.**, Srinivasan, C.S. and Kadiyala, S. (2020). The impact of gender equity in agriculture on nutritional status, diets, and household food security: a mixed-methods systematic review. *BMJ Global Health* 5 (3): E002173.
- Srinivasan, C., **Zanello, G.**, Nkegbe, P., Cherukuri, R., Picchioni, F., Gowdru, N. and Webb, P. (2020). Drudgery reduction, physical activity and energy requirements in rural livelihoods. *Economics and Human Biology* 37: 100846.
- Haenssngen, M., Charoenboon, N., **Zanello, G.** et al. (2019). Antibiotic knowledge, attitudes, and practices: new insights from cross-sectional rural health behaviour surveys in low- and middle-income South-East Asia. *BMJ Open* 9(8): e028224.
- Poole, N., Amiri, H., Amiri, S., Farhank, I. and **Zanello, G.** (2019). Food production and consumption in Bamyan Province, Afghanistan: The challenges of sustainability and seasonality for dietary diversity. *International Journal of Agricultural Sustainability* 17(6): 413-430.
- Zanello, G.**, Shankar, B. and Poole, N. (2019). Buy or Make? Agricultural production diversity, markets and dietary diversity in Afghanistan. *Food Policy* 87: 101731.
- Haenssngen, M., Charoenboon, N., **Zanello, G.** et al. (2018). Antibiotics and activity spaces: protocol of an exploratory study of behaviour, marginalisation and knowledge diffusion. *BMJ Global Health* 3:e000621.
- Zanello, G.**, Srinivasan C.S. and Nkegbe, P. (2017). Physical activity, energy expenditures, and time use in agriculture and rural livelihood: Protocols and

preliminary findings from a pilot study in northern Ghana. *Development Engineering* 2: 114-131.

Fu, X., Mohnen, P. and **Zanella, G.** (2017). Innovation and productivity in formal and informal firms in Ghana. *Technological Forecasting and Social Change*, 131: 315-325.

Zanella, G., Srinivasan, C. and Shankar, B. (2016). What Explains Cambodia's Success in Reducing Child Stunting-2000-2014? *PLoS ONE* 11(9): e0162668.

Flores-Martinez, A., **Zanella, G.**, Shankar, B. and Poole, N. (2016). Reducing anemia prevalence in Afghanistan: socioeconomic correlates and the particular role of agricultural assets. *PLoS ONE* 11 (6): e0156878.

Zanella, G., Fu, X., Mohnen, P. and Ventresca, M. (2016). The creation and diffusion of innovation in developing countries: A systematic literature review. *Journal of Economic Surveys* 30(5): 884-912.

Zanella, G., Srinivasan C.S. and Shankar, B. (2014). Transaction costs, information technologies, and the choice of marketplace among farmers in Northern Ghana. *Journal of Development Studies* 50(9): 1226-1239.

Zanella, G. and Srinivasan C.S. (2014). Information sources, ICTs and price information in rural agricultural markets. *European Journal of Development Research* 26: 815-831.

Irz, X., Fratiglioni, L., Kuosmanen, N., Mazzocchi, M., Modugno, L., Nocella, G., Shakersain, B., Traill, W., Xu, W., **Zanella, G.** (2013). Sociodemographic determinants of diet quality of the EU elderly: A comparative analysis in four countries. *Public Health Nutrition* 17(5): 1177-1189.

Srinivasan C.S., **Zanella, G.** and Shankar, B. (2013). Rural-Urban disparities in child nutrition in Nepal and Bangladesh. *BMC Public Health* 13: 581.

Zanella, G. (2012). Mobile phones and radios: Effects on transactions costs and market participation for households in northern Ghana. *Journal of Agricultural Economics* 63(3): 694-714.

- Awarded the 2011 essay prize of the Agricultural Economics Society.

Zanella, G. and Maassen, P. (2011). Strengthening citizen agency through ICT: an extrapolation for Eastern Africa. *Public Management Review* 13(3): 363-382.

BOOK CHAPTERS **Zanella, G.** (2022). *Donors: Financial resources and beyond*. In: 2022 Global Nutrition Report: Stronger commitments for greater action. Bristol, UK.

Zanella, G. (2022). *Private sector: A focus on internal policies to improve nutrition*. In: 2022 Global Nutrition Report: Stronger commitments for greater action. Bristol, UK.

Picchioni, F., **Zanella, G.**, Bhattacharya, M., Gowdru, N. and Srinivasan, C. (2022). *Towards more comprehensive analyses of the Nutrition Transition among adolescents in the rural South: An empirical contribution*. In: Kevany, K. and Prosperi, P. (eds.) *Routledge Handbook of Sustainable Diets*. Routledge, London and New York.

Fu, X. and **Zanella, G.** (2020). *Innovation under the radar as a response to constraints: the nature of innovation in Africa*. In: Fu, X. (ed.) *Innovation under the Radar: The Nature and Sources of Innovation in Africa*. Cambridge University Press (UK)

- RESEARCH AND POLICY REPORTS** Guermond, V., Parsons, L., Long, L.V., Brickell, K., Michiels, S., Fay, G., Bateman, M., **Zanella, G.**, Natarajan, N., Iskander, D., and Picchioni, F. (2022). *Microfinance, over-indebtedness and climate adaptation: New evidence from rural Cambodia*. Royal Holloway, University of London (UK)
- Iskander, D., Picchioni, F., Long, L.V., Parsons, L., Guermond, V., Michiels, S., Brickell, K., **Zanella, G.**, and Natarajan, N. (2022). *Trapped in the Service of Debt: How the Burdens of Repayment are Fuelling the Health Poverty Trap in Rural Cambodia*. Royal Holloway, University of London (UK)
- De Maria, M., West, C., Dreoni, I., Antoni, E., Brooks, S., **Zanella, G.**, and Uehara, T. (2022). *International Trade: The Good, the Bad, and the Sustainable. Discussion Paper*. UK Research and Innovation Global Challenges Research Fund (UKRI GCRF) Trade, Development and the Environment Hub.
- Gowdru, N., **Zanella, G.**, Cherukuri, R., and Srinivasan, C.S., (2022). *Adolescents in rural Telangana, India: Evidences on differences in time use, physical activity, and food intake across lower caste groups*. Boston, USA: Tufts University, IMMANA Fellowship Round 5.
- De Maria, M., **Zanella, G.**, Nakagawa, L., Robert, J.S., Visentin, J.C., Pavani, B., Branco, P.D., Fendrich, A., Giaroli de Oliveira Pereira Barretto, A., Rocha Junior, A.B., and Lima Ranieri, S.B. (2022). *Moving Towards a Sustainable Soybean Supply Chain A Sustainable Policy Toolbox for Brazilian Stakeholders and Other Global Actors*. UK Research and Innovation Global Challenges Research Fund (UKRI GCRF) Trade, Development and the Environment Hub.
- Zanella, G.** and Micha, R. (2021). *The SMARTness of nutrition commitments*. Nutrition Accountability Framework. Global Nutrition Report.
- Zanella, G.** and Micha, R. (2021). *Developing the NAF Platform's Commitment Registration Form*. Nutrition Accountability Framework. Global Nutrition Report.
- Micha, R., Karageorgou, D. and **Zanella, G.** (2021). *A guide to the NAF Platform's Commitment Registration Form*. Nutrition Accountability Framework. Global Nutrition Report.
- Zanella, G.**, Picchioni, F., Srinivasan, C.S., Webb, P., Nkegbe, P., Cherukuri, R., and Neupane, S. (2020). *Accelerometry: A practical tool for obtaining human energy expenditure data*. IMMANA Policy Briefing Note. London (UK)
- Zanella, G.**, Srinivasan, C.S., Picchioni, F., Webb, P., Nkegbe, P., Cherukuri, R., Neupane, S., Ustarz, Y., Gowdru, N., Neupane, S., and Wyatt, A.J. (2018). *Using Accelerometers in Low- and Middle-Income Countries: A Field Manual for Practitioners*. University of Reading, Reading (UK)
- Kadiyala, S., Aurino, E., Cirillo, C., Srinivasan, C.S., and **Zanella, G.** (2018) *Rural transformation and the double burden of malnutrition among rural youth in low and middle-income countries*. Background paper for the 2019 IFAD Rural Development Report. Rome (Italy)
- Fu, X., **Zanella, G.**, Essegbey, G.O., Hou, J., and Mohnen, P. (2014). *Innovation in low income countries: A survey report*. University of Oxford, Oxford (UK)
- PUBLISHED DATASETS** Iskander, D., Brickell, K., Natarajan, N., Parsons, L., Guermond, V., **Zanella, G.**, Picchioni, F., Joseph, N., Guerin, I., Venkatasubramanian, G., and Chann, S. (2023). *Relationship Between Climate Change, Debt, Nutrition and Health During COVID-19 Pandemic, 2022*. Colchester, Essex: UK Data Service.
- Zanella, G.**, Srinivasan, C., Picchioni, F., Webb, P., Cherukuri, R., Nkegbe, P., and Neupane, S. (2019). *Physical activity, time use, and food intakes of rural*

households in Ghana, India, and Nepal 2017-2018. Colchester, Essex: UK Data Service.

Haenssger, M. J., Proochista, A., Wertheim, H. F. L., Greer, R. C., Jones, C., Lubell, Y., Reed-Tsochas, F. P., **Zanello, G.**, Newton, P. N., Mayxay, M. (2019). *Antibiotics and activity spaces: rural health behaviour survey in Northern Thailand and Southern Laos 2017-2018*. Colchester, Essex: UK Data Service.

SELECTED WORK IN PROGRESS “Sharing work and food within the household: A dyadic analysis of couple inter-dependence in time allocation” (with Oluwatosin Afeni and C.S. Srinivasan)
 “Physical activity, food intake and time use patterns among adolescents: Stylised facts between caste groups in Telangana, India” (with Nithya Gowdru)
 “Quantity and quality of physical activity during adolescence: Evidence from a mixed-method study in rural Telangana, India” (with Mondira Bhattacharya, Fiorella Picchioni and C.S. Srinivasan)
 “Posture-based classification using multiple accelerometers: An example analysis of livelihood activities of rural households in Ghana” (with Soma Chakraborty et al.)

TEACHING **University of Reading**
 Supply chain management, B.Sc. (convenor) 2022 -
 Quantitative marketing research methods, M.Sc. (convenor) 2017 -
 Qualitative research methods, M.Sc. (convenor) 2015 -
 Approaches to development, B.Sc. (lecturer) 2020 -
 Introductory statistics and econometrics, M.Sc. (lecturer) 2018-2023
 Econometrics, M.Sc. (lecturer) 2015-2023
 Independent research project, B.Sc. (lecturer) 2015-2018
 Resources and environmental economics, M.Sc. (lecturer) 2015-2018
 Quantitative methods 1 & 2, B.Sc. (teaching assistant) 2010-2011
 Economic aspects of the food supply chain, B.Sc. (lecturer) 2009

University of Oxford
 Quantitative research methods, M.Phil. (lecturer) 2014
 Technology and industrialisation in dev. countries, M.Phil. (lecturer) 2014-2015

AWARDS, SCHOLARSHIPS, FELLOWSHIPS, AND ACHIEVEMENTS Teaching Excellence Award (University of Reading) 2022
 Fellow of the Higher Education Academy (HEA) (United Kingdom) 2017
 Winner of the Essay Competition (Agricultural Economics Society) 2012
 Research Travel Grant (University of Reading) (£1,500) 2012
 Full Ph.D. scholarship (University of Reading) (£45,000) 2008-2011
 Leonardo da Vinci scholarship (European Commission) (€7,500) 2008
 Field research scholarship (University of Bologna) (€2,500) 2006

UNIVERSITY SERVICE Development Research Steering Group (University of Reading) 2021 -
 ANH Academy Week Conference Scientific Committee 2019 -
 Africa International Regional Partnership Leader (University of Reading) 2018 -

	Member of the SAPD Ethical Committee (University of Reading)	2016 -
	Organiser of the AEM Seminar Series (University of Reading)	2017-2019
	Co-organiser of the Technology and Management for Development Centre (TMCD) and Saïd Business School doctoral workshop series (University of Oxford)	2012-2015
	Co-editor of the TMCD Working Paper Series	2012-2015
	Co-organiser of the Innovation and African Development conference and training course (Accra, Ghana)	2014
	Co-organiser of the Academy of Innovation and Entrepreneurship (AIE) conference (Oxford, UK)	2013
SELECTED CONFERENCE AND SEMINARS PRESENTATIONS	University of Guelph (Guelph, Canada), ANH Academy (Lilongwe, Malawi)	2023
	Chiang Mai University (online)	2022
	National Institute of Rural Development and Panchayati Raj (online), Feed the Future Nutrition Innovation Lab (online), ANH Academy (online)	2021
	Feed the Future Nutrition Innovation Lab (Kathmandu, Nepal), AAEEA (online), ANH Academy (online)	2020
	Seeds of Change (Canberra, Australia), IFPRI (Washington DC, US), Johns Hopkins Bloomberg School of Public Health (Baltimore MD, US), ANH Academy (Hyderabad, India), AAEEA (Atlanta, US)	2019
	Oxford Tropical Network (Ho Chi Minh, Vietnam), ANH Academy (Accra, Ghana), ESRC Research Methods Festival (Bristol, UK), IFAD (Rome, Italy)	2018
	ANH Academy (Kathmandu, Nepal)	2017
	ANH Academy (Addis Ababa, Ethiopia), Informality and Development (Bloomington (IN), US), LIDC (London, UK)	2016
	iHEA (Milan, Italy)	2015
	Peking University (Beijing, China), DSA (London, UK), CSAE (Oxford, UK), UNU-WIDER (Helsinki, Finland), AIE (Oxford, UK), DSA (Birmingham, UK)	2014
	RES Ph.D. Meeting (London, UK), University of Reading (Reading, UK), CSAE (Oxford, UK), AES (Warwick, UK), AAEEA (Seattle, USA), Oxford Dept. of International Development (Oxford, UK)	2013
	CSAE (Oxford, UK), WUSC (Ottawa, Canada)	2011
	Institute of Social Studies (The Hague, The Netherlands), IPID (London, UK), VU University (Amsterdam, The Netherlands), University of Namur (Namur, Belgium)	2009
MENTORSHIP AND SUPERVISION	Post-doctoral researchers	
	<i>Current:</i> Marcello De Maria (2021-), Olusegun Fadare (2023-)	
	<i>Past:</i> Nithya Gowdru (2020-2021), Mondira Bhattacharya (2020-2021), Fiorella Picchioni (2016-2020), Soma Chakraborty (2018), Jorge Campos Gonzalez (2020), Amidou Assima (2019)	
	Doctoral students (Ph.D.)	

Current: Chinonso Eze, Nsama Nsemiwe

To completion: Marcello De Maria (2019), Lydiah Nyambok (2022), Ciro Dominguez Mendez (2022), Jorge Campos Gonzalez (2022), Krishnal Thirumarpan (2023), Olusegun Fadare (2023), Umar Shehu Umar (2023), Oluwatosin Temitope Aderanti (2023), Costanza Conti (2023)

Postgraduate students (M.Sc.)

2021-22: Bukola Olopade, Peter Kwarteng

2020-21: Anne Amedu, Atumwen Kum, Clara Wicoff, Sudeep Kandel

2019-20: Evangeline Agbonifo, Zeyu Bayu, Amina Ali Mamadi

2018-19: Amidou Assima, Bilal Ahmad Stanikzai, Livia Milani Corniani Degli Algarotti, Taiwo Motunrayo Babajide

2017-18: Elizabeth Oakes, Kanta Matsumura, Telma Yamou

2016-17: Ilona Coulson Ashworth, Yaqui Xin

2015-16: Miriam Apeverga, Ricardo Bauman, Irene Bodega, Tina Goetz, Rahmatullah Kawsary

Graduate students (B.Sc.)

2022-23: Emily Rutherford, Victoria Costa Do Nascimento, Youssef El Gowhary, Yannes Ma, Dan Radbourne

2021-22: Tom White

2020-21: Rob Salter, Caitlin Cannon, Kimberly Subroto, Paal Larsen Holm

2019-20: Adrienne Bowes-Taylor, Ahmed Ludin, Amy Merrington, Bella Heather, Laura Marshall, Thomas Wright, Caitlin Edwards, Michalis Michail

2018-19: Eleanor Esplen, Eleanor Roper, Georgia Redfern, Harriet Rowe, Mihail Draganov, Malika Motwani, Phivos Phylactou, Stephanie Fisher

2017-18: Elizabeth Alderman, Fergus Brown, Megan Islin, Sophie Nelson, Georgina Triniman

2016-17: Amber Louise Arbuthnot, Luke Brown, Imane Sifi, Rachel Swain, Danica Webb

2015-16: Alexandra Brown, Rebecca Hynes, William Panter, Lily Thomas, Georgia Tubb

FIELDWORK Brazil (2006), Ghana (2016-19, 2013-14, 2009-10), India (2005, 2016-20), Nepal (2017-20), Thailand (2017-18, 2021-24), Laos (2017-18, 2021-24), Cambodia (2019-22)

PROFESSIONAL SERVICE *Editor:* PLoS ONE (2018-2022)

Reviewer: World Development, Oxford Development Studies, Journal of Biosocial Science, Journal of African Economies, Food Policy, Journal of Development Studies, Feminist Economics, Women's Studies International Forum, Technological Forecasting and Social Change, Journal of International Development, European Journal of Development Research, Agricultural Economics, PLoS ONE, Innovation and Development, Development Studies Research

Member: Agricultural and Applied Economics Association (2015-) and Agricultural Economics Society (2012-2018)

Grant evaluation: IMMANA (2019), ESRC (2019), BBSRC (2018)

PhD thesis examiner: University of Reading (2018-2022), LSHTM (2022), University of Adelaide (2017)