

## Biography

Dr Judith Wang joined the University of Leeds in 2013 as Associate Professor in Transport Engineering in a joint appointment with the School of Civil Engineering (SoC) and Institute for Transport Studies (ITS). She received her MSc(Eng) in Transport Planning and Engineering from ITS in 1993 and PhD from Hong Kong University of Science and Technology in 2004. She plays a key role as a bridge between SoC and ITS within the University of Leeds as well as internationally between the Southwest Jiaotong-Leeds Joint School in China and the University of Leeds in her role as the Programme Director of Civil Engineering with Transport. Dr Wang has over 25 years of international experience in transport planning, with substantial experience not only in academia but also in the transport industry. She has teaching and research experience in five different countries. Prior to moving to the UK, she worked in Hong Kong, New Zealand and France. Her key industry work experience in Hong Kong include operations planning of the Mass Transit Railway in Hong Kong and strategic planning for the new Hong Kong International Airport opened in 1998. In New Zealand, she had worked for the University of Auckland for more than eight years, as a Lecturer in the Department of Civil Engineering, a Research Fellow in the Energy Centre and a Senior Research Fellow in the Department of Engineering Science. In 2007, she visited Ecole des Mines de Nantes as a Visiting Lecturer for five months and more recently in 2018, she visited Tokyo Institute of Technology in Japan for two months with an Invitational Fellowship, where she has taught at postgraduate level in both institutes.



Over the last decade or so, Dr Wang's research has focussed on the application of multi-objective optimisation in transport planning and modelling. She has had a track record of publications in modelling multi-objective equilibria in road network as well as in multi-modal network, considering the effect of travel time, travel time reliability and cost. Since joining the University of Leeds in 2013, Dr Wang has developed a strong interest in looking at the integration of land use, transport, air quality and their impact on population health. In particular, Dr Wang would like to promote healthier transport mode choices such that our transportation system will become more sustainable and resilient naturally. This has led to a recently EPSRC-funded £1-million research project, 'OptiWaSP – Optimised Walking Schoolbus Planning', now being conducted by a multi-disciplinary research team formed by principal and co-investigators from Lancaster University, University of Leeds and the University of the West of England.