

Hong received her BEng degree in Industrial Engineering and Management from Tianjin University of Technology, China, and M.Eng. degree in Management Science from Shanghai Jiao Tong University, China. She obtained her PhD in Construction Project Management from the Department of Building and Real Estate, The Hong Kong Polytechnic University in 2009. Hong worked for the Department of Building and Real Estate, The Hong Kong Polytechnic University as an academic staff.

Before joining the academia, she worked for Datong Municipal Development and Reform Commission (former Datong Municipal Planning Commission) in China as a government officer and China Council for the Promotion of International Trade, Datong Branch, China and China Chamber of International Commerce, Datong Branch as a Vice-Chairman. She also worked in Canada's Walton International Group Inc. (Hong Kong branch) and AXA Hong Kong as a consultant for a shorter time.

Her current research topic is "Analyzing and Modelling Regional Travel-related Energy Consumptions using System Dynamics Approach. The aim of this study to provide an experimental simulation platform to explore the complex and interdependent relationships between the various factors affecting the travel-related energy consumptions, and investigate the possible outcomes of different scenarios under alternative government policies on urban transportation energy use and other market-driven factors beyond government control. She is hoping to integrate the spatial analysis and GIS techniques to urban transportation planning through the current PhD study and research.

Professional Qualification

Economist, P. R. China; Insurance Intermediaries Quality Assurance

Publications/Research Output Items

- YAO, H. and HAO, J. L. Simulation model for identifying effective policies in mitigating noise emissions from highway projects. *International Journal of Construction Management* (2014). 14:2, 67-77.

- YAO, H., SHEN, L. Y., TAN, Y. T. and HAO, J. L. Simulating the impacts of policy scenarios on the sustainability performance of infrastructure projects. *Automation in Construction* (2011). 20(8), p.1060-1069.

- TAN Y. T., SHEN, L. Y., and YAO, H. Sustainable construction practice and contractors' competitiveness: A preliminary study. *Habitat International*. Vol.35, Issue 3, pp.225-230 (2010).

- SHEN, L. Y., Hao, J. L., TAM, V. W. Y. and YAO, H. A checklist for assessing sustainability performance of construction projects. *Journal of Civil Engineering and Management*. Vol XIII, No.4, pp.273-281 (2007).

- YAO, H., SHEN, L.Y., HAO J. L. and YAM, C. H. M. A fuzzy-analysis-based method for measuring contractors' environmental performance. *Management of Environmental Quality: An International Journal*. Vol. 18, Number 4, pp. 442-458 (2007).

- SHEN, L. Y., YAO, H. and ALAN, G. Improving environmental performance by means of empowerment of contractors. *Management of Environmental Quality: An International Journal*. Vol. 17, Number 3, pp. 242-257 (2006).

- SHEN, L. Y., LU, W. S., YAO, H. and WU, D. H. A computer-based scoring method for measuring the environmental performance of construction activities. *Automation in Construction*. Vol. 14, pp. 297-309 (2005).
- YAO, H., OU, X. and SHEN, L. Y. Review on environmental management performance in construction business. *Key Issues of Sustainable Performance for Construction Projects*. The Hong Kong Polytechnic University Press, ISBN: 962-367-518-6, pp. 55-72.
- YAO, H. and Chen, D. M. A system dynamics model for urban sustainable transportation planning. Accepted by the proceedings of Geoinformatics 2015, June 19- June 21, Wuhan, China.
- YAO, H., SHI, W. Q., and CAO, L. M. Developing a multicriteria approach for evaluating sustainability performance of infrastructure projects. *Proceedings of 2007 International Conference on Construction and Real Estate Management (ICCREM)*, Bristol, University of the West England, UK, August 21st -22nd, 2007.
- YAO, H. Assessing the sustainability performance of infrastructure projects. *Proceedings of International Conference on Sustainable Building Asia*, aT Center, Seoul, Korea, June 27-29, 2007 (Won the Hong Kong Scholarship Program – Seoul SB07 27th -29th June 2007).
- YAO, H., HAO, J. L and SHEN, L.Y. A dynamic approach for evaluating infrastructure projects' sustainable performance. *Proceeding of the CRIOCM2006 International Symposium on the Advancement of Construction Management and Real Estate*, North China Electric Power University, Beijing, China, 3rd-5th November 2006.
- YAO, H. and SHI, W.Q. Valuation of environmental impact of projects. *Proceeding of the ICCREM 2006 International Conference on Construction and Real Estate Management*, Sheraton World Resort, Orlando, Florida, USA, 5-6 October 2006.
- YAO, H. and LEE, K.H.R. Review on the practice in conducting feasibility study in implementing public sector projects. *Proceeding of the CRICOM 2005 International Research Symposium on Advancement of Construction Management and Real Estate*, Hangzhou, China, October 2005.
- YAO, H., PENG, Z. M., YAM, C.H.M. and HAO, J.L. A framework for improving environmental performance in construction. *Proceeding of the CRICOM 2004 International Research Symposium on Advancement of Construction Management and Real Estate*, Hong Kong, December 2004.
- LU W.S., SHEN, L.Y., LEI, D. and YAO, H. A computer-aided decision support system for assessing a contractor's competitiveness. Guangzhou, China, 2004.
- SHEN, L. Y., LU. W.S., YAO. H. and WU, D. H. An IT supported scoring method for measuring the environmental performance of construction activities. *Proceedings of the World IT Conference for Design and Construction, INCITE 2004*, Langkawi, Malaysia, February 2004.
- WU, D. H., YAO, H., SHEN, L. Y. and LU, W. S. A computer-aided model for assessing a contractor's environmental performance. *Proceeding of the CRICOM 2004 International Research Symposium on Advancement of Construction Management and Real Estate*, Macau, December 2004.

Research Activities

- 2015 Member of Editorial Board, Journal of Earth Sciences
- 2014 Referee, The 19th International Symposium on the Advancement of Construction Management and Real Estate, held at Chongqing University over the period of Nov 7 - 9, 2014.
- 2011 Co-investigator for the research project "Incentive Policies for Promotion of Energy Efficient Buildings", Department of Building and Real Estate, The Hong Kong Polytechnic University
- 2011 Member, Working Group for Sustainable City Lab at the Department of Building and Real Estate, The Hong Kong Polytechnic University
- Present Membership, The China Research Institute of Construction Management
Individual Membership, CPGIS The International Association of Chinese Professionals in Geographic Information Science
- 2005 – 2006 Member and editor for Committee for the Hong Kong PolyU Student Chapter of CIB (The International Council for Research and Innovation in Building and Construction)

Research Grants

- 2005 – 2006 Grant from Shanxi Province Government, Shanxi Province, P. R. China (RMB40,000), Contribution of construction project development towards sustainable development, Principal Investigator.