

# UTokyo-Cambridge Joint Seminar

## Sustainable Societies and Cities: A Comparison of Research Approaches from International Perspectives

9.30am-12:00am (Japan Standard time) on 28 March 2025  
Seminar Room, 3rd Floor, Engineering Building No.11, Hongo Campus  
7-3-1 Hongo, Bunkyo-ku Tokyo, Japan<sup>1</sup>

This seminar grows out of a series of discussion sessions facilitated by the University of Tokyo and Cambridge partnership programme – the scholars have been able to develop in-depth exchanges on human behaviour modelling and urban design, with a view to improve the research impacts on practical low carbon development. As Japan and the UK are leading low carbon development in complementary ways, this seminar aims to compare notes among the researchers, focusing on new initiatives that have emerged since the covid pandemic.

### Program

- 9.30am Brief Introductions by joint chairs  
Professor Ying Jin (University of Cambridge)  
Professor Hironori Kato (The University of Tokyo)
- 9.35am Neuro-cognition of urban paths and spaces  
Dr Michal Gath-Morad (Assistant Professor, University of Cambridge)
- 10.00am Understanding travel mode choice behaviour using Bayesian Network models  
Lingzi Pan (Doctoral Student, University of Cambridge)
- 10.15am Understanding the expansion of university campuses – a worldwide phenomenon  
Xiangyi Meng (Doctoral Student, University of Cambridge)
- 10.30am Tokyo Metropolitan Area Activity-Travel Patterns Simulator (T-ACT)  
Professor Daisuke Fukuda (The University of Tokyo)
- 10.50am Understanding Changes in Traffic Demand during the Tokyo 2020 Olympic and Paralympic Games  
Dr Takao Dantsuji (Post-doctoral researcher, The University of Tokyo)
- 11.10am Examining the social and economic impacts of road concessions: Evidence from Brazil  
Jefferson Hishiyama da Silva (Doctoral student, The University of Tokyo)
- 11.25am Effects of urban rail transit in the Bangkok Metropolitan Region: Local economy and land development  
Naravit Thongnak (Doctoral student, The University of Tokyo)
- 11.40am Impact of donor-imposed technology selection in urban rail systems on life cycle cost  
Masanobu Higashino (Master student, The University of Tokyo)
- 11.55am Future advances and potential collaborations: A brain storming session

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<sup>1</sup> This hybrid seminar is accessible on Zoom (<https://u-tokyo-ac-jp.zoom.us/j/84838468924?pwd=K2jPm4TnRtPUbommt94l8rSACao7p7.1>) with Meeting ID: 848 3846 8924 and Passcode: 514576.

## Bios of major participants

### **Ying Jin**

Professor, Department of Architecture, University of Cambridge

Ying Jin is Professor of Architecture and Urbanism. He was a former Director of the Martin Centre for Architectural and Urban Studies - a research centre that has more than 50 years of track record in interdisciplinary research on buildings, cities and the wider built environment - in the Dept of Architecture of Cambridge University. He leads the theoretical development and practical applications of city-scale computer models at the Martin Centre. Since 2011 he has been the lead convenor of ten international symposia on Applied Urban Modelling, which is the main international event for the field. He is a Commissioner at the UK2070 Commission and the UK's Independent Transport Commission since 2022.



### **Michal Gath Morad**

Assistant Professor, Department of Architecture, University of Cambridge

Dr. Michal Gath Morad is an Assistant Professor at University of Cambridge's Department of Architecture, where she directs her own research group - Cambridge Cognitive Architecture. She is an architect holding a PhD in cognitive science, conducting research around three key themes: understanding how architecture impacts spatial cognition, translating behavioral findings into evidence-based design tools, and analyzing how evidence influences architects' cognition, design communication, and design outcomes.



### **Hironori Kato**

Professor, Department of Civil Engineering, Graduate School of Engineering, The University of Tokyo

Prof. Hironori Kato is a full professor at the Department of Civil Engineering, Graduate School of Engineering, The University of Tokyo since November 2013. His main research/teaching concerns are transportation planning and policy, transportation economics, transportation finance, and travel behavioral analysis.



### **Daisuke Fukuda**

Professor, Department of Civil Engineering, Graduate School of Engineering, The University of Tokyo

Daisuke Fukuda is a professor in transportation studies at the University of Tokyo in the Department of Civil Engineering. He joined the Department of Civil and Environmental Engineering at Tokyo Institute of Technology (TIT) as a Research Associate in 2001 and was promoted to an Associate Professor in 2005 until 2019. While working at TIT. He has his Ph.D. from the University of Tokyo in 2004. He conducts research in travel behavior analysis and transportation economics.

