



## Healthy People and Healthy Planet

Leveraging AI for Decarbonised, Healthy, Inspiring and Energy-Positive Cities

Location: Data Science Institute, South Kensington Campus, Imperial College  
London, SW7 2AZ

### Welcoming session

**1.30-2.00 pm** Coffee & Tea

**2.00-2.15 pm** Introduction of the workshop and objectives (Chair Mojtaba Moatamedi, Executive Director, New York Univ. London)

**Lecture session:** Challenges in NetZero and AI in urban sustainability and management (Chair Mojtaba Moatamedi)

**2.15-2.25 pm** Challenges in Net Zero: Delivering Healthy Places for social connection, aesthetics, inspiration, safety, health & well-being (Philip Challinor, Architect)

**2.25-2.35 pm** Introduction of a recently funded EPSRC project: "Hybrid AI and multiscale physical modelling for optimal urban decarbonisation" (Fangxin Fang – Earth Science and Engineering, Imperial College)

**2.35-2.50 pm** Climate Change Policies Reduce Air Pollution, improve Health and Increase Physical Activity: Benefits, Costs, Inequalities, and Indoor Exposures (Sean Beevers – Environment Research Group, Imperial College)

**2.50-3.05 pm** Bayesian Source Identification with Dual Hierarchical Neural Networks for Urban Air Pollution (Elissar Al Aawar- KAUST, Saudi Arabi)

**3.05-3.20 pm** Healthy urban transitions: reducing car dependency (Audrey, de Nazelle – Centre of Environmental Policy, Imperial College)

### Visualisation session (Coffee/Tea Break)

**3.20-3.30 pm** Coffee & Tea

**3.30-3.45 pm** AI4System in urban environmental prediction and management (Christopher C Pain, Earth Science and Engineering, Imperial College)

**3.45-4.00 pm** Adaptation and RECLAIM Network Plus (Prashant Kumar- Surrey Univ. )

**Lecture session-** Challenges in NetZero and AI in urban sustainability and management (Chair Mojtaba Moatamedi) - Continued

**4.00-4.15 pm** Robust Urban greening, climate and interpretable SciML for fluid flows using multiscale graph neural networks (Romit Maulik- Penn State Univ. )

**4.15-4.30 pm** From Data to Action: Enhancing Urban Life with Climate Intelligence (Daniil Mintc, OpenWeather Meteorological Service)

**4.30-4.45 pm** Creating Trustworthy AI for Building Management (Amir Taba- Direk)

**Discussion and Closing Remarks (round table)** (4.45 – 5.00 pm): Challenges in NetZero and AI in urban sustainability and management (Chair Mojtaba Moatamedi)

1. Leveraging technology to promote healthy living
2. Challenges in existing technologies toward Net-Zero
3. Policy changes and development control using digital tools
4. Energy use, economics and carbon reduction
5. Trustworthy and generative AI
6. Healthy built environment
7. Future/Potential Funding

**Networking and Refreshment** (5.00 pm onward)