

Welcome to CASA

Duncan Hay



Today

10.00-11.45: Welcome and Introduction

12.00-13.00: Complexity with Prof. Elsa Arcaute

13.00-14.00: Lunch at Marshgate Cafeteria

14.00-1600: Thinking with Maps

Session Outline

Basics and Admin (15 mins)

Introductions (15 minutes)

About CASA (15 minutes)

About Me (10 minutes)

Break (10 minutes)

About In2STEM and the week ahead (10 minutes)

Activity: Your Ideal City (30 minutes)

Some Admin...

Safety

- Access Cards and Bathrooms
- Emergency Exits
- Meeting Points
- Field Trip

Food & Drink

For today: ground floor – water fountain next to the café

From tomorrow: Kitchen on second floor has a coffee machine

We'll take lunch each day at the cafeteria and Marshgate...

...but we're also just next to Westfield so there's plenty of choice

About You

- Introduce yourself to the group
- Your name
- Where you're from
- What you're studying
- Why you were interested in architecture/engineering

Three Things In Common

In pairs:

- Talk to your neighbour and write down three things that you both have in common. You might want to think about:

- Hobbies?
- Music?
- Books?
- Favourite subject at school?

5-10 minutes

Feedback 5 mins

Background

Photo by [Alexandr Bormotin](#) on [Unsplash](#)



About CASA

The Centre for Advanced Spatial Analysis (CASA) is an interdisciplinary research institute focusing on the science of cities.

We're based in the Bartlett Faculty of the Built Environment at University College London.

We have a *very* wide range of people working in the department: engineers, computer scientists, mathematicians, architects, geographers, historians, artists...

Research

Recent Papers:

Diffusion of Overseas Corporate-Owned Properties in London

The Morphology of a Post-Pandemic City

People in Harm's Way: Flood Exposure and Poverty in 189 Countries

Mapping British Monuments Related to Slavery

Exploring the Materiality of Augmented Reality Markers through Arts-Led Co-Creation

Teaching

MSc Urban Spatial Science with choice of pathways

Smart Cities and Urban Policy

Modelling and Simulation

Data Visualisation

MSc Connected Environments

Sensing, visualising and understanding the built and natural environments (Internet of Things; AI; Virtual Reality; Data Science)

Based here at UCL East

Olympic Park as a ‘Living Lab’

About Duncan

- Very interdisciplinary!
- PhD in English Literature from Manchester University – poetry and place in 20th Century London
- Worked in contemporary art and literature before becoming an academic
- Self-taught computer programmer and web developer

My Research

- Mapping Cultural History
- Spatial Justice and Representation
- Technology for Social Resilience
- Spatial Storytelling

Principles

Open Data, Open Software, Open Code

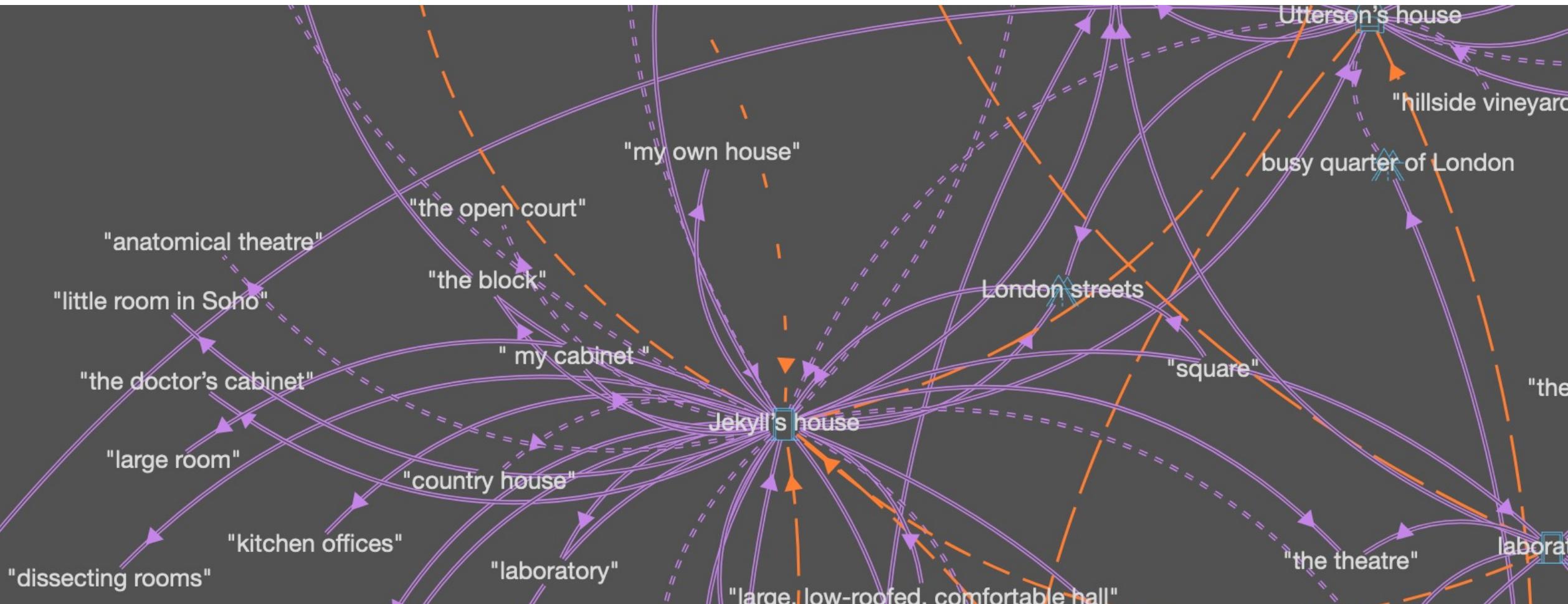
Technology should bring people together, not drive them apart

Understanding the past can help us make better decisions for the future

Survey of London Whitechapel



Chronotopic Cartographies



The Living Stone / The Listening Wood



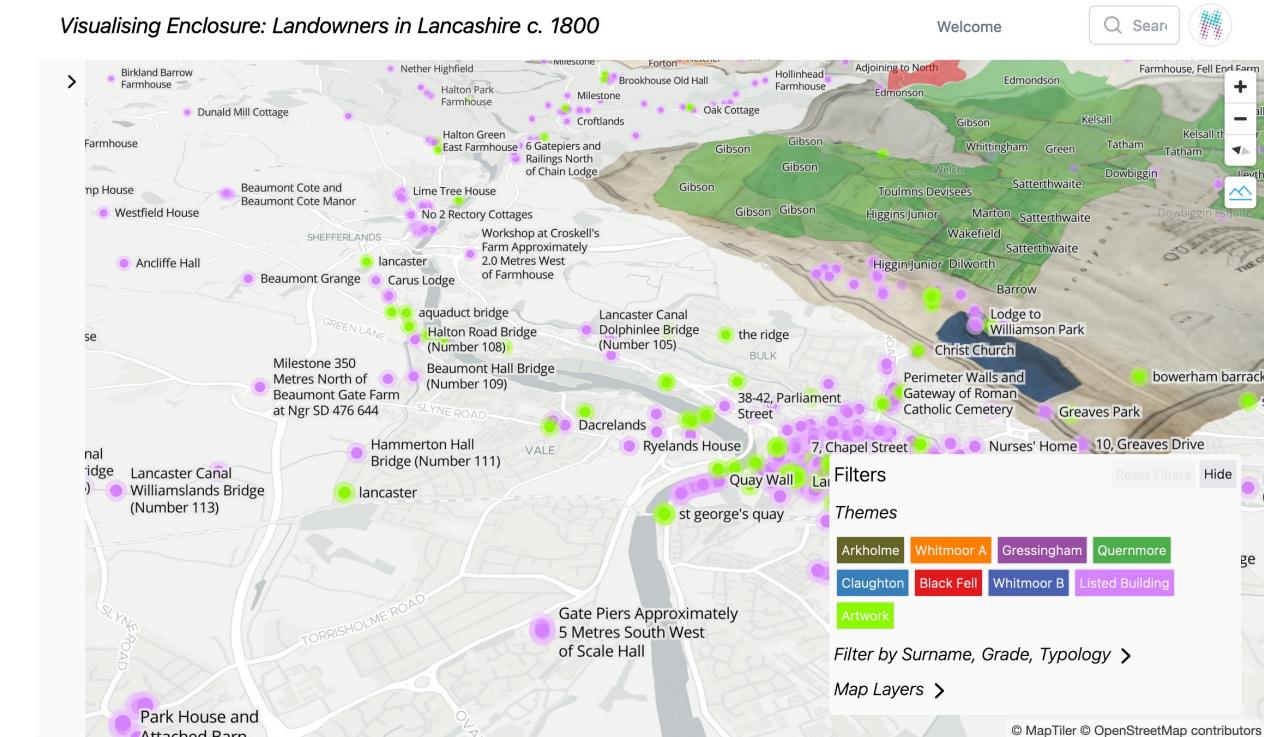
British Public Monuments Related to Slavery



Memory Mapper



A Toolkit for Mapping Memory and Place



In2STEM 2024

Why are we doing In2STEM?

1. To share what we love doing
2. To plant a seed for the future
3. To diversify our sector

What do we hope you'll learn?

- There's more to the built environment than buildings
- That modelling is fun
- That university is a place to explore ideas
- That you don't have to stay in your box...

The Week Ahead

- Monday: Complex Systems and Mapping
- Tuesday: Working with Sensors
- Wednesday: Understanding Gentrification & Field Trip to Hackney Wick
- Thursday: Mapping Gentrification and Modelling Neighbourhood Change
- Friday: Reflecting on the week& Placement Presentations

In2STEM Resources

<https://ddunc23.github.io/teaching/In2STEM2024/>

Design Your Ideal City

In threes, draw a map of your ideal city (ie. that best meets what you *all* would like)

- Walking or driving?
- High rise or low rise?
- Old or new?
- Gardens or farmer's markets?
- Flats or houses?
- High tech or low tech?