

# Tom Lodge

Researcher, Product Owner, Developer



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I am a researcher with a strong technical background in full-stack development and expertise in UX and design. I'm currently Head of Innovation & Research at a London property company. Prior to that I worked in a HealthTech/AI startup. I've worked on and led a diverse range of projects, ranging from multi-institutional collaborations to agile, cutting-edge prototypes. I am an Honorary Assistant Professor at the University of Nottingham and my work has been published in respected academic journals across a range of disciplines; from novel 'on-edge' privacy-preserving architectures to immersive design fictions.

## Key skills

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### Frontend

Frameworks:

React, Redux, LangChain,  
React Native, D3.js, Next.js

Design / Productivity tools:

Figma, Affinity Suite  
Jira, Confluence, GSuite

### Backend

Languages:

Javascript, Typescript, Python

Backend environments

Digital Ocean, Github pages, AWS, Vercel, Jupyter

Databases

Postgres, Mongo, MySQL, Neo4j, Google Cloud

## Employment history

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<b>Ringley Group</b> Head of Research & Innovation	2025 - Current
<b>Blueskeye AI</b> Product Owner, Health	2022 - 2025
<b>Horizon Digital Economy Research, Nottingham University</b> Research Fellow	2021 - 2022
<b>Mixed Reality Lab, Nottingham University</b> Research Fellow	2013 - 2021
<b>Open and Distance Learning, Queen Mary, University of London</b> Research Associate	2002 - 2005
<b>Networks and Multimedia Research Group, UCL</b> Research Associate	2000 - 2002

## Recent projects (a selection)

### TrueBlue

2023 - current

I was the product owner for BlueSkeye AI's flagship health product: TrueBlue. The app uses AI models to monitor perinatal and pre-natal women for depression. I designed the app, evaluated it amongst clinicians and patient groups, helped ensure MHRA approval and worked closely with the clinical lead and R&D team to ensure the trial's success.

### My Fertility Journey

2023 - current

I designed and oversaw the development of an app currently being used by patients at a prestigious fertility clinic in London. This is a collaboration with the clinic, Blueskeye AI and a pharmaceutical company. The app generates on-device mood predictions; used by partners to measure and understand mood fluctuations at key points within a fertility treatment cycle.

### Adaptive Podcasts

2022 - 2022



[view on github](#)

I was project lead on a collaboration between The Horizon Institute, BBC R&D and Lancaster's Imagination Research Lab. We used a pre-release of BBC's adaptive podcast platform and our caravan (see below) to develop mechanisms for groups to engage with adaptive podcasts and to negotiate access to co-owned sensor data.

### Experiencing the Future Mundane

2020 - 2022



[view on github](#)

This project instrumented a caravan with sensor prototypes to present a version of a future living room. The project was in collaboration with Lancaster University and the BBC and was exhibited at events and museums across the country. I developed a web-based authoring package and engine that communicated with a large numbers of sensors. It significantly improved the speed with which we could test and deploy new experiences.

### IoT Databox

2016 - 2020



[view on github](#)

This was a multi-institution project (Cambridge, Nottingham, Imperial, BBC and BT) that built a privacy-supporting device that manages a user's IoT data by storing it within the home and allowing 'apps' to process data locally (i.e. without ever exporting it to the cloud). I developed a web-based IDE for building privacy-compliant apps.

### Education

#### University of Nottingham, PhD

2006 - 2012

Opportunistic Data Collection in People-Centric Sensor Networks

#### University College London, MSc

1999 - 2000

Data Communication Networks and Distributed Systems

Award: Distinction

#### Queen Mary, University of London, BSc

1996 - 1999

Computer Science

Award: First Class, Drapers award for "outstanding academic achievement"