JUSTAS BRAZAUSKAS

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EDUCATION

2022/09 – Current
University of Cambridge — PhD Computer Science
Topic: Sensor networks-backed applications in Smart Building context

2021/09 – 2022/08
University of Cambridge — MRes Sensor Technologies
Dissertation: Visual Communication Tools for CO2 Accumulation in Shared Spaces. *Graphics & Interaction Group.* Key Modules: Interaction with Machine Learning, Robotics, Biosensors and Bioelectronics, Climate Change Mitigation.

2016/09 – 2019/06
University College London — BASc Sciences and Engineering
Dissertation: Stressed out Millennials and Wearable Devices. *Centre for Advanced Spatial Analysis (CASA, UCL).*
Key Modules: Algorithms and Data Structures, Mathematical Methods, Programming, Cognitive Systems, Game Theory, Connected Systems, Machine Learning, Networked Systems, Internet of Things, Nanotechnology.

EXPERIENCE

2022/09 – Current
InferSens
Machine Learning Architect. Created and implemented a range of ML models to run on embedded devices. Model conversion from Python to C run on low-power hardware. LoRa-based device integration with dataviz dashboards.

2019/10 – 2021/06
Computer Laboratory, University of Cambridge
Research Assistant position in the Systems Research Group. Primary work on sensor networks research.
Research on BIM, BMS and IoT stack interoperability in smart buildings.
Supervised by Dr Ian Lewis and Prof Richard Mortier.
Audited Modules: Affective Computing, Mobile and Sensor Systems

2019/09 – 2019/06 Full time, 2020/03 Part time
UCL Interaction Centre, University College London
Created a physical computing toolkit that enables school children to learn computer science concepts through movement and embodied interaction. Supervised by Prof Yvonne Rogers and Dr Nicolai Marquardt.

2018/10 – 2018/12
TES Global
Created and implemented a provisional matrix decomposition-based recommendation engine and researched improvements to the search algorithm for their catalogue of products.

2018/06 – 2018/09
York Cross-disciplinary Centre for Systems Analysis, University of York
Worked on Evolving Computation in Materials (Evolution-in-Materio) and Reservoir Computing.
Utilised Genetic Algorithms and Recurrent Neural Networks to model in-materio computing systems.

PUBLICATIONS

Complete list available on Google Scholar

EdgeSys '22
DeepDish on a diet: low-latency, energy-efficient object-detection and tracking at the edge
Matthew Danish, Rohit Verma, Justas Brazauskas, Ian Lewis, Richard Mortier

DIS '21
Data Moves: Physical Computing for Teaching Computing Concepts through Movement
Justas Brazauskas, Susan Lechelt, Yvonne Rogers, Rebecca Evans, Su Adams, Ethan Wood, Nicolai Marquardt

BuildSys '21
Real-Time Data Visualisation on the Adaptive City Platform
Justas Brazauskas, Rohit Verma, Vadim Safronov, Matthew Danish, Ian Lewis, Richard Mortier

HotNets '21
Do we want the New Old Internet? Towards Seamless and Protocol-Independent IoT Application Interoperability
Vadim Safronov, Justas Brazauskas, Matthew Danish, Rohit Verma, Ian Lewis, Richard Mortier

SIGSPATIAL '21
RACER: Real-Time Automated Complex Event Recognition in Smart Environments
Rohit Verma, Justas Brazauskas, Vadim Safronov, Matthew Danish, Ian Lewis, Richard Mortier

Applied Sciences, 10 (22. 8287)
An openBIM Approach for IoT Integration with Incomplete as-built Data
Nicola Moretti, Xiang Xie, Jorge Merino, Justas Brazauskas, Ajith Kumar Parlikad

EdgeSys '20
DeepDish: multi-object tracking with an off-the-shelf Raspberry Pi
Matthew Danish, Justas Brazauskas, Rob Bricheno, Ian Lewis, Richard Mortier

SHOWCASES

2019 — Exhibited selected works at the Noise Exhibition by Savage @ UCL
2017-2018 — Exhibited selected works at the Bartlett Summer Show in '17 and '18.

VOLUNTEERING

Camden STEAM Commission
Promoting scientifc engagement and encouraging children to choose careers in Science, Technology, Arts and Maths.

PROFESSIONAL SKILLS

Adobe Suite	Unity	Java	JavaScript	D3.js/P5.js/Processing
Blender	SolidWorks	Python	MATLAB	CLI
Rhino	Tableau	SQL	Git	Embedded C

LANGUAGES

English
French
Lithuanian