

# Dominic Duxbury

Computer Science PhD Candidate

## Contact

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## Orcid ID

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## Publications

- Unpublished **Dynamic decision making for situational awareness using drones**  
In this paper we present five desiderata for dynamic decision support and we compare methods with regards to the consistency of trade-offs between criteria and the stability of results under small changes to criteria values.
- Unpublished **Trust in real-time decision support: A case study**  
This paper evaluates the effects of decision support features on the antecedents of trust by carrying out a user study with a drone-assisted maritime operations scenario.
- 2019 **Trusted and Auditable Decision Aids over Data Streams**  
Proceedings of the Workshops of the EDBT/ICDT 2019 Joint Conference  
This paper investigates approaches for bringing together stream management and decision support systems in a way that is both auditable and trustable.

## Education

- 2017–2021 **Researcher PhD Student** University of Manchester  
As part of a PhD, I investigated methodologies for combining stream processing engines with decision support algorithms to enable dynamic decision support in a way that supports trust calibration and auditability.
- 2013–2017 **Computer Science and Maths** University of Manchester  
BA (Hons) 1st Class
- 2011–2013 **A Levels** Cardinal Newman College, Preston  
AAA in Maths, Further Maths and Chemistry  
79% in AS Level Economics
- 2006–2011 **GCSE** Holy Cross Catholic College, Chorley  
6 A\*, including 3 A\* in sciences and an A\* in maths  
5A, including English

## Experience

- 2017–2021 **BAE Systems** New Malden  
Researcher  
I supported BAE research as part of a 3 month internship, split across 4 years.
- 2015–2018 **Laterooms.com** Manchester, Greater Manchester  
Data Scientist  
I supported business intelligence and maintained the hotel ranking algorithm.
- 2012–2013 **Extreme Karting UK** Euxton, Lancashire  
Go-Karting Marshall  
I helped to maintain the go-karts and track at a local go-karting track.

## Personal Projects

- 2021 **Lead Developer** DACC Data  
As part of a team, I worked to develop a graph data product for Ecommerce and created an application for funding from InnovateUK.
- 2019 **Data Consultant** Pdfta  
I produced and delivered a talk at the department for transport promoting pdfta.
- 2014 **Web Development** Allen Duxbury Solutions  
I worked to create webpages for small businesses. This gave an opportunity to improve my web development skills and taught me the basics of running a business.

## Volunteer Work

- 2018–2021 **Festival Volunteer** Oxfam  
I volunteered for Oxfam, promoting their campaigns at various festivals around the UK.
- 2011–2013 **In-Shop Volunteer** British Heart Foundation  
I volunteered at the British Heart Foundation shop in Chorley once a week. My role consisted of sorting and organising donations made to the shop.

## Awards

- 2008–2013 **Duke Of Edinburgh Gold, Silver and Bronze awards**  
The Duke Of Edinburgh's Award  
I completed all three awards, cumulating in a four week trip to Thailand for my gold award. During this time, I worked as part of a team to plan and complete a five day kayaking expedition around the islands. The other part of our trip was spent helping out in the community. This included teaching English at the local school, assisting at a Cambodian refugee camp and helping at an animal shelter.

## Languages

**French** conversational and intermediate written skills and an A\* at GCSE.  
**Spanish** basic skills including a 2-1 on the introduction to Spanish course.

## Software Skills

**Web Development:** JavaScript, React, HTML, CSS, GraphQL, SQL, Git.

**Streaming Software:** Java, Apache Flink, Apache Kafka, Apache Storm.

**Machine Learning:** Python, Scikit-learn, Matplotlib, TensorFlow.