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Ellis Thompson

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RESEARCH INTERESTS

Reinforcement Learning, Machine Learning, Multi-Agent Reinforcement Learning, Computer Vision
Air Traffic Management (ATM), UAS Traffic Management (UTM), Autonomous Transport Systems

EDUCATION

George Washington University
Ph.D. in Computer Science   *Aug. 2021 - Present*
Advisor: Dr. Peng Wei

Swansea University
MSc in Computer Science   *Sep. 2018 - July 2021*
Advisor: Dr. Bertie Muller
Dissertation: Reinforcement Learning for Air Traffic Management
Award Achieved: 1st Class (Hons)

University of Chester
CertHE in Computer Science   *Sep. 2017 - July 2018*

RESEARCH EXPERIENCE

George Washington University   Washington, DC
Ph.D. Student and Graduate Research Assistant   *Aug. 2021 - Present*
- Designing a risk assessment based system to be part of an in-time learning-based aviation safety management system (ILASMS) for scalable advanced air mobility (AAM) on a NASA funded project.
- Performing research on autonomous control systems for traffic management in the terminal airspace.

Swansea University   Swansea, UK
MSci Student   *Sep. 2019 - July 2021*
- Adapted an existing conflict avoidance system to utilise altitude changes to avoid conflict states between en-route aircraft.
- Performed research into possible solutions for utilising airspace sectors for autonomous air traffic management, utilising reinforcement learning.

SELECTED COURSEWORK

Machine Learning (Swansea, GWU)	Data Visualisation (Swansea)
Artificial Intelligence (GWU)	Mathematics for Data Science (Swansea)
Big Data & Data Mining (Swansea)	

SKILLS

Python (TensorFlow, PyTorch, SciKitLearn), C#, Java, C++, HTML, JavaScript (Node.Js), Tableu