

# THOMAS ASTON

PhD Researcher at  
the University of  
Edinburgh



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## RESEARCH EXPERIENCE

### The University of Edinburgh

PHD

Edinburgh

09/2022 - Present

### Universidad Carlos III de Madrid

RESEARCH PLACEMENT

Madrid

01/2021 - 08/2021

### The University of Edinburgh

SUMMER RESEARCH INTERNSHIP

Edinburgh

06/2020 - 09/2020

## EDUCATION

### The University of Edinburgh

MECHANICAL ENGINEERING (MEng)

Edinburgh

09/2017 - 06/2022

### Lenzie Academy

NATIONAL QUALIFICATIONS

Glasgow

08/2011 - 05/2017

## OTHER WORK EXPERIENCE

### The University of Edinburgh

TUTOR

Edinburgh

09/2022 - Present

### Endeavour Rocketry

STRUCTURES TECHNICAL LEAD

Edinburgh

08/2020 - 10/2021

### Endeavour Rocketry

RECOVERY TEAM ENGINEER

Edinburgh

09/2019 - 08/2020

## OTHER QUALIFICATIONS

### AdvanceHE

INTROAP

Edinburgh

09/2024-01/2025

### Edinburgh Award

THE EDINBURGH AWARD (WORK EXPERIENCE)

Edinburgh

06/2020-09/2020

### DeepLearning.AI

DEEP LEARNING SPECIALIZATION

Online

12/2022-04/2023

### Harvard University, Online

CS50: INTRODUCTION TO COMPUTER SCIENCE

Online

09/2022-12/2022

## ABOUT ME

Third year PhD student with strong skills in programming, numerical modelling and artificial intelligence technologies, which I am currently applying to my research on the mechanics of sporting head impact.

## SKILLS

- Programming: Python, MATLAB
- Numerical modelling: Finite Element Analysis (LS-DYNA, Abaqus)
- Artificial intelligence: Tensorflow, PyTorch, Keras
- Report writing:  $\LaTeX$ , MS Office
- Problem solving
- Time management
- Communication

## AWARDS

- 2024 - International Sports Engineering Association FIFA Research Challenge Winner
- 2023 - International Research Council on Biomechanics of Injury European Conference Travel Grant
- 2022 - The University of Edinburgh MEng Mechanical Engineering:
  - IMechE Best Student
  - Frederic Barnes Waldron Medal
  - 5<sup>th</sup> year Class Medal
- 2020 - Edinburgh Award (Work and Volunteering Experience)
- 2017 - The Stewart Stevenson senior Award for Excellence in Mathematics
- 2016 - Lenzie Academy Senior Dux Award