

Hannah Riley

hannah.847@btinternet.com, 07443 560 126, <https://www.linkedin.com/in/hannah-rose-riley/>, <https://h8s8.github.io/>

EDUCATION

The University of Manchester

09/19 – 06/22

Physics BSc (Result: First class)

- Developed skills and an enthusiasm for programming through means of analysing data in the laboratory and the completion of coding assignments. Coding projects included: modelling the penetration of neutrons through a shielding material using Monte Carlo techniques, and a simulation of an analogue circuit. Achieved grades above 92% in all Python assignments, and 87% in an Object-Oriented Programming course using C++.
- Confident in using laboratory equipment to collect and analyse raw data, and communicating experimental results through presentations and writing lab reports. Used LaTeX to format lab reports.
- Acquired strong research and planning skills through creation of BSc dissertation on 'Spatial Evolutionary Games and their Applications to Bacterial Communities'.

University of the Arts London

09/18 – 05/19

Foundation Diploma in Art and Design (Result: Distinction)

- Regularly presented work to tutors and peers for feedback, and welcomed discussion and advice on how to improve and progress with current projects.

Sydenham and Forest Hill 6th Form / Sydenham School

09/11 – 07/18

- A-Levels: Maths (A*), Further Maths (A), Physics (A)
- AS-Levels: Art (A)
- GCSEs: 13 A* - A, including English Language, English Literature, Maths, and Triple Science

TECHNICAL EXPERIENCE

The University of Manchester, Robotics Society

09/21 – 04/22

Chess AI robotic arm trajectory planning team

- Collaborated with the chess board imaging and chess AI teams to program a robotic arm to play chess.
- Improved the efficiency of the robotic arm's movements by developing a method in MATLAB to produce parabolic paths for the arm to move chess pieces across the board.

The University of Manchester, Centre for Nonlinear Dynamics

06/21 – 09/21

Internship with Draga Pihler-Puzovic

- Partnered with another intern to derive a new model for the behaviour of a Hele-shaw cell composed of one rigid wall and one elastic wall when a viscous fluid was injected into its centre.
- Applied knowledge of non-linear physics to fluid mechanics, which was at the time an unfamiliar area of physics.

ADDITIONAL AWARDS AND CERTIFICATES

Programming Foundations with JavaScript, HTML and CSS: Duke University on Coursera

19/07/2023

- Applied skills learned on this course to build a personal website to showcase university projects. A link to the website can be found here: <https://h8s8.github.io/>

Machine Learning: Stanford University & DeepLearning.AI on Coursera

26/04/2023

- Studied how unsupervised and supervised machine learning is used to solve a wealth of problems. Utilised TensorFlow library to build and train neural networks. Learned best practices to efficiently create accurate models.

Associate Fellow of Higher Education Academy (AFHEA): Advance HE

20/06/2022

- Awarded for contributions to the PASS community at the University of Manchester.

Stellify Award: The University of Manchester

12/07/2022

- Awarded for participation in social justice challenges, volunteering work, and for engaging in leadership roles.

Lifeguarding Certifications: Royal Life Saving Society UK

12/04/2019

- IQL Level 2 Award in Automated External Defibrillator – AED (Expires: 14/04/25)
- IQL Level 2 Award in Pool Lifeguarding, Intervention, Supervision and Rescue (Expires: 14/04/25)

OTHER WORK EXPERIENCE

DMC Healthcare, London

09/23 – Present

Business Support Assistant

- Currently introducing MaintainX as a new asset management software within the company to keep track of expensive IT and clinical equipment.
- Collating agendas, and writing minutes for clinical meetings.
- Involved in planning for the company to attend conferences by booking travel and accommodation. Researched cost-effective options for large expenses.

JAGs Sports Club, London

07/19 – Present

Casual Sports Assistant

- Communicates clearly with swimmers to address unsafe behaviour on the poolside.
- When the sports club reopened during the summer of 2020, sports assistants had to work as a team to adapt to overseeing four additional sports activities and a much more intensive cleaning and disinfecting routine. As a result, members of JAGs Sports Club could access sports facilities at an early stage in the pandemic.
- Demonstrates excellent patience and attention to detail while monitoring the pool for periods of one hour.

Casual Receptionist

07/23 - Present

- Engages with customers in person and over the phone to answer queries about the sports club and its services.
- Gained experience working in a fast paced, busy environment which often requires multitasking.
- Collaborated with Club Manager to update the Child Safeguarding policy.

Fusion / Glass Mill Leisure Centre and Forest Hill Pools, London

06/19 – 08/19

Casual Lifeguard

- Attended the reception area while not lifeguarding on poolside. Took payments for pool admission and communicated with customers over the phone.

POSITIONS OF RESPONSIBILITY AND VOLUNTEERING

The University of Manchester: PASS Admin Student Coordinator

09/21 – 06/22

- Managed the physics PASS scheme of 89 PASS leaders and 394 mentees.
- Matched pairs of PASS leaders with appropriate groups of first years, and kept track of registers and room bookings to ensure the scheme ran smoothly.
- Conducted majority of communications with the PASS leaders, this also involved collecting feedback on the scheme from leaders and mentees through use of google forms and in person conversations.
- Discussed the management of the scheme, and plans for events and activities in the future during weekly PASS coordinator meetings.

London Wildlife Trust: Conservation volunteer

08/21 – 04/22

- Completed wildlife surveys, built dead hedges to protect trampled areas, cleared invasive plants and removed algae from pond surface to promote biodiversity.

The University of Manchester: PASS Leader

10/20 – 06/21

- Planned, advertised, and ran weekly PASS meetings with a partner. Created a supportive and friendly atmosphere where first years could discuss problems they had encountered in their studies.
- Tailored sessions to cover what the mentees found most useful. Ran special sessions to cover particularly important topics such as finding housing and how to write a lab report.

Private Tutor

06/17 – 09/19

- Tutored two siblings (from ages 9 to 13) in Maths, English, and Science twice a week.

The Scouts Association: Young Leader

2015 – 2018

- Lead meetings for groups of approximately 20 children of ages 8 to 11 along with scout leaders and fellow young leaders. Achieved a Jack Petchey Award for voluntary work in scouting in 2016.

PERSONAL INTERESTS

I love arts and crafts including anything from illustration to knitting. Many of my spare moments are spent practicing my guitar. Cycling is my preferred mode of transport where possible. My favourite weekend activities include visiting museums and galleries, attending concerts, and going hiking. I would like to learn British Sign Language in the future.