

Hannah Riley

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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.
- 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 writing 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 SKILLS AND CERTIFICATES

IT

- Programming Foundations with JavaScript, HTML and CSS by Duke University on Coursera. Achieved 19/07/23.
- Machine Learning by Stanford University & DeepLearning.AI on Coursera. Achieved 26/04/23.
- Regularly use Latex (Overleaf) and Microsoft Office applications such as Word, PowerPoint, Outlook, and Excel.

Associate Fellow of Higher Education Academy (AFHEA)

- Awarded in June 2022 for contributions to the PASS (Peer Assisted Study Sessions) community at the University of Manchester.

Stellify Award

- Achieved in July 2022 for participation in social justice challenges, volunteering work, and for taking up leadership roles at the University of Manchester.

First Aid

- IQL Level 2 Award in Automated External Defibrillator – AED (valid until April 2025)
- IQL Level 2 Award in Pool Lifeguarding, Intervention, Supervision and Rescue (valid until April 2025)

OTHER WORK EXPERIENCE

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.
- Uses software such as *Gladstone MRM Plus 2* and *Magicbooking* to book members on to exercise classes.
- Gained experience working in a fast paced, busy environment which often requires multitasking.
- Currently working with senior management to update the 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.
- Paired PASS leaders together, matched each pair with appropriate groups of first years, and kept track of registers and room bookings to ensure the scheme ran smoothly.
- Conducted almost all 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.
- During weekly PASS coordinator meetings, the management of the scheme, and plans for events and activities in the future were discussed. These sessions were also useful to address any problems or concerns that the PASS leaders had raised when asked for feedback.

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. Successfully 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.
- Four mentees signed up to be PASS leaders in the following academic year.

Private Tutor

06/17 – 09/19

- Tutored two siblings (from ages 9 to 13) in Maths, English, and occasionally 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 printmaking to knitting. Many of my spare moments are spent practicing my chess. 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.