

# Joanne Yuqing Lin

BSc Computer Science student at the University of Bristol

## Education

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**University of Bristol** BSc (Hons) Computer Science Sep 2020 – Jun 2023

Currently achieving and on track for a First

**Liverpool Blue Coat School** A-Levels Sep 2013 – Jun 2020

A\*A\*AB in Mathematics, Chemistry, Physics and Further Mathematics; 10 GCSEs grade 9-7, 2 GCSEs grades A\*-A

## Projects

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**BSc Final Project: Deep Learning for Accurately Counting Great Apes in Camera Trap Videos** Jan 2023 – May 2023

- Will be using Deep Learning to accurately count the number of great apes appearing in video snippets from camera traps placed in the wild
- Will need to overcome challenges such as overcounting/undercounting due to temporal occlusions, multi-animal configurations and detection inaccuracies

**Fruit Detector using Faster R-CNN** Nov 2022 – Jan 2023

- Created a fruit detector that uses a Faster R-CNN to accurately detect fruits in images
- Used PyTorch for the machine learning framework

**Image Processing and Computer Vision coursework: No-Entry Sign Detector** Nov 2022 – Dec 2022

- Created a no-entry sign detector that uses image processing methods (e.g. colour segmentation) and classical Computer Vision techniques (e.g. Hough Transforms, Viola-Jones) to detect no-entry signs in images
- The detector had an accuracy of TPR score of 0.82 and a F1-score of 0.70

**SkyWrite App** Oct 2021 – May 2022

- Created an Android app in Java as a team of 4 for our client, IBM, that allows users to send/view messages in augmented reality to a given postcode.
- Also created a Spring Boot application for the server to allow users to communicate with one another.

## Work Experience

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**MAC Clinical Research** – Associate SAS Programmer Intern Jul 2022 – Sep 2022

- Developed SAS programming skills throughout the MAC SAS Academy
- Took training to learn about CDISC standards used in the clinical research industry

## Responsibilities

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**Computer Science Society (CSS) Press Officer** May 2022 - Present

- Design promotional material for CSS events, including social events and technical events like GameJam, ArtHack, BrisHack and talks from tech companies
- Manage social media accounts and the newsletter

**Computer Science Teaching Assistant** Sep 2021 – Present

- Work alongside lecturers to assist students during labs, and assist lecturers in vivas
- Mentor teams for the Software Engineering projects

**Computer Science Course Representative** Nov 2020 - Present

- Attend frequent meetings with the department to discuss feedback from the cohort
- Work with the department to come up with solutions to any problems

## Achievements

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**Bristol PLUS award**

- Currently working towards the Bristol PLUS award, the University's Employability award