

## StudentShapers Recruitment: Calling all students interested in digital pedagogy and maths for machine learning

### *Curriculum Development for the Mathematics for Machine Learning Massive Open Online Course*

#### Bursary:

£325 per week for 8 weeks

#### Who should apply:

We are looking for 3 students with an interest in digital learning, online pedagogy and the mathematics of machine learning. Optional skills and interests include data analysis, Python and web app development in JavaScript, as there are lots of potential directions for the project.

#### Campus/Location:

Online

#### Project details:

Mathematics for Machine Learning (M4ML) is one of Imperial College London's flagship Massive Open Online Courses (MOOCs). It has given tens of thousands of learners access to teaching from ICL academics, represents ICL worldwide and has also been repurposed for on-campus teaching resources and for deferred on-campus students this year.

However, there are aspects of the course that could do with improvements, and this is where Student Shapers come in! The Student Shapers will partner with the Digital Learning Hub and M4ML course instructors to evaluate and improve the course. This will likely consist of:

- Examining the material and learner data to evaluate the course in terms of quality, difficulty, flow, clarity of instructions etc.
- Identifying areas for improvement based on this research, then planning and developing materials to make these changes. Depending on the Student Shapers' interests, this might involve creating and modifying Coursera quizzes, Jupyter notebooks, and custom web applications.
- Presenting their work to the wider DLH team, with the goal that their findings will influence the way we build online courses in the future.

The project will run full time for 8 weeks over the Summer.

Students will have the opportunity to hone skills in metacognition, pedagogy, machine learning specific maths, online course development, data analysis and programming, depending on their interests.

#### How to apply:

Please email Simon Pocock at [s.pocock15@imperial.ac.uk](mailto:s.pocock15@imperial.ac.uk) with details of your interest in the project, any relevant experience highlighted above, if you have any experience of online courses, and your availability over the Summer. Don't worry if you don't feel you tick every box, as we are interested in a range of perspectives on the course.

Imperial College  
London

# STUDENTSHAPERS

**Deadline:**

11/04/2021

**Contact details:**

If you have any questions, please contact Simon Pocock at [s.pocock15@imperial.ac.uk](mailto:s.pocock15@imperial.ac.uk)

[imperial.ac.uk/studentshapers](https://imperial.ac.uk/studentshapers)

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