

# LUCY HARRIS

lucy-harris@live.co.uk

Queens' College, Silver St, CB3 9ET  
+447401368965

PhD Candidate | University of Cambridge

## OBJECTIVE

I am passionate about sustainability and the environment.

My primary interests are climate change and mitigation strategies, particularly around flooding and ocean dynamics.

I want to work towards positive change in society.

## SKILLS

I am logical, precise, organised and punctual.

I enjoy working with in a team - I am flexible and open to new ideas, and I like being challenged.

I am currently taking online courses in Python and attending undergraduate maths lectures to develop my skills. In my leisure time, I am a keen and disciplined athlete.

## LEADERSHIP

I have captained both the Oxford and Cambridge women's boxing teams. I helped set up the first ever women's team varsity, and won a national student championship title in 2016.

I have competed for the prestigious CUWBC, winning the lightweight boat race in 2018 and qualifying for, and reaching the quarter-final of, Henley Women's Regatta in 2018 and 2019 in the lightweight single scull. I also represented GB Universities at the European Student Championships in 2018.

I have worked part time as a self-employed private tutor since 2009, and have managed larger groups of summer school students for different private companies.

## EXPERIENCE

### LAB DEMONSTRATOR • CAMBRIDGE UNIVERSITY • ONGOING

I assist the professors in charge of different laboratory projects by managing smaller groups of students and giving short lectures on background theory, demonstrating correct use of experimental apparatus and providing feedback.

### SUPERVISOR • DOWNING COLLEGE, CAMBRIDGE • NOV 2017—JUN 2018

I delivered the second-year information engineering course for twelve students, setting problem sheets, organizing and giving supervisions in small groups and providing feedback for the student and director of studies at the end of each term.

### SPORTS FEDERATION PRESIDENT • UNIVERSITY OF OXFORD • JUL 2015–16

I spent one year in an elected sabbatical officer role for the governing body of sports clubs at the university, providing administrative and development support and organising and hosting the annual sports dinner for over 150 guests.

### INTERN • ROLLS ROYCE • JUL—SEPT 2014

I worked with the electronics, control and instrumentation rigs team at the Raynesway nuclear engineering site in Derby, assisting with the installation and initial testing of a new test rig.

## EDUCATION

### PHD CANDIDATE • PRESENT • UNIVERSITY OF CAMBRIDGE

I am using the material point method (a geophysical computational method related to finite element modelling) to investigate wave runup on permeable barriers, for example, a storm surge wave impacting on a sloped, porous beach. I am investigating how the permeability of the beach or sea wall can be exploited to mitigate wave runup response.

### MRES • OCT 2017 • UNIVERSITY OF CAMBRIDGE

I took core civil engineering classes and optional ones in advanced building physics and computational methods in geomechanics. My project was a joint venture with DAMTP (Department of Applied Maths and Theoretical Physics) and focused on modelling the evolution of gravity driven flows, and mixing between two currents of different densities in MATLAB.

### MENG ENGINEERING SCIENCE • JULY 2015 • UNIVERSITY OF OXFORD

I chose modules related to civil engineering (soil mechanics, hydrology and environmental engineering) as well as core modules. I undertook an experimental master's project investigating fluid flow through porous media, for which I designed and built the experimental apparatus from scratch.