

SCISOC SPOTLIGHT

BY THE CAMBRIDGE UNIVERSITY SCIENTIFIC SOCIETY

Prof. Chiara Marletto

PHYSICS
DEPARTMENT,
UNIVERSITY OF
OXFORD



RESEARCH FOCUS:

QUANTUM THEORY AND
QUANTUM
INFORMATION

I am working, together with a team of brave collaborators, on developing a **generalisation of the quantum theory of computation**, which will help us **understand quantum theory better** (maybe even improve on it!) and at the same time will also deliver the theory of the **next generation of programmable machines** (also called 'constructors') superseding universal computers.

WHY RESEARCH?

It is at the foundations of physics - it touches the deeper part of the 'fabric of reality'.

" [Research] touches the deeper part of the 'fabric of reality'."



ONE PIECE OF ADVICE...

In short: Seek **intellectual delight** in an uncompromising way. Look for problems that you find interesting; cultivate the **joy of understanding and solving them.**