

# Anna Soligo

**Portfolio** | [www.annasoligo.com](http://www.annasoligo.com)

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## Education

**Dyson School of Design Engineering, Imperial College London** | *MEng Design Engineering*

2019 – 2023

*1st year* – 1st class grade and Dean's List Award (top 10% of students)

**Modules Studied** – Engineering Mathematics, Mechanics, Electronics, Computing, Production and Materials, Finite Element Analysis, Data Science, Thermofluids, Human Centred Design, Sustainable Design, Industrial Design

**Example Projects:**

**Lightweight Tandem Bike Frame Optimisation (2nd Year)**

A bicycle frame designed using finite element analysis to inform the selection of materials and structural dimensions, in order to minimise the frame's mass while fulfilling functionality and durability constraints.

**Draw-E – An Interactive Cardboard Machine (2nd Year)**

A drawing and painting cardboard robot, which is controlled remotely using a custom-coded web app (HTML, CSS and JavaScript) hosted on a micro-controller.

**JUNO Sustainable Toy Subscription (2nd Year)**

A system concept which reduces the material and energy use of the baby-toy sector by an estimated 91%. It fulfils the need for convenience and provides a unique platform to monitor cognitive and motor development.

**Lady Margaret Secondary School**

2011 – 2019

**A Levels** – Mathematics A\*, Further Mathematics A\*, Physics A\*, Chemistry A\*, Fine Art A\*

**Extended Project Qualification** – To what extent is an observer effect required to explain quantum mechanics?

**GCSEs** – 11 x A\*

## Employment

**Dyson School of Design Engineering** | *Computing Teaching Assistant*

April 2021 – present

Running weekly tutorial sessions and being a first point of contact for students on the first year Computing 2 module.

**The Climbing Hangar London** | *Rock Climbing Instructor*

2016 – present

Qualified climbing coach, running group and private coaching sessions for adults and children from the age of 5. (Qualifications: MT Development Coach, Safeguarding & Protecting Children, BMC Fundamentals 1 and 2)

**Neuro-Assets** | *Research Assistant*

June 2017

A confidential research project to help a medical and business consultancy assess the feasibility of a project.

## Volunteering and Leadership Positions

**The Ideas Lab, Imperial College London** | *Student Expert*

2020 – present

Helping to maintain equipment such as 3D printers, running student inductions and teaching Fusion-360 sessions.

**Madagascar Big Wall Climbing** | *Expedition Leader*

2021 TBC (Postponed from 2020)

Wrote trip proposals for a team of 7 climbers to travel to Madagascar to climb multi-day climbing routes up to 800 vertical metres, and successfully applied for funding. (Grants received from the British Mountaineering Society, the Imperial College Exploration Board, the RDC Foundation and the Royal Mayors 500th Anniversary Fund)

**Imperial College Mountaineering Club** | *Vice President, Gear Secretary*

2020 – present

Responsible for organising UK and overseas trips and competitions for Imperial's climbing club

## Other Skills and Qualifications

**Prototyping** | 3D printing, Laser cutting, Electronics

**CAD** | Solidworks, Solidworks Simulation, Fusion 360

**Coding** | Python, MatLab, HTML, JavaScript, CSS, SQL

**Adobe** | Illustrator, InDesign, Photoshop, After Effects

**Languages** | English and French (mother tongues), Italian (working knowledge), German (basic knowledge)

**Driving Licence** | Clean, UK Category B1

**First Aid** | Emergency First Aid at Work (2017, 2021)

**Violin** | Grade 5

## Hobbies and Travel

**Indoor and Outdoor Rock Climbing** | Including multi-pitch routes in the Alps and Scottish winter climbing

**Slacklining and Highlining** | Rigging and walking on tensioned webbing lines up to 200m above the ground

From 2018–19, I travelled around Europe and South Africa, taking volunteer roles such as helping build a climbing wall in Sicily and bolting new climbing routes in Bosnia. Travelling alone and making many international friends was eye opening, and I taught myself Italian in this time.