

Edward Schamp

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EDUCATION

Imperial College London **London, Sep 2018-Jun 2022**

MEng Electrical and Electronic Engineering (H604) – First Class Honours (Summa Cum Laude)

- Key module areas: Machine learning, deep learning, image processing, signal processing (70%+)
- Thesis: Image segmentation via multi-resolution convolutional neural networks (70%) – Utilised the internal network layers as outputs to significantly speed up network training
- Teamwork: First class grade in all Group Projects and the Industrial Placement

PROJECTS

TravelGPT: The user provides basic information about their upcoming vacation, and their travel interests, and TravelGPT uses prompt engineering to construct a suitable travel plan.

Ariadne: The user provides a problem, and any assumptions that they would like to make while solving it. Ariadne uses prompt engineering to output a step-by-step solution to the problem.

PROFESSIONAL EXPERIENCE

Imagination Technologies: AI Researcher **London, Oct 2022-Present**

- Optimised diffusion networks for image generation on the GPU and neural network accelerator
- Designed a novel sparse graph attention network architecture, improving inference up to 10x
- Communication: daily stand-up updates, weekly progress meetings and presentation of work

Imagination Technologies: AI Research Placement **London, Apr 2021-Sep 2021**

- Optimised 2 neural networks for NLP, using cross-attention, for the neural network accelerator
- Trained 3 custom quantised models (NLP with transformer), obtaining promising results

Southeastern Railway: Summer intern, Web Development **London, Jun 2020-Jul 2020**

- Constructed a web module codebase to automate QR code scanning and processing
- Extended project for database compatibility and future integration with the internal system

FireTech: Summer tutor **London, Jul 2019-Aug 2019**

- Prepared week-long daily lesson materials for the “Python”, and “C for robotics” courses
- Designed the activities program, involving two engaging 2-hour sessions each day

OTHER RELEVANT EXPERIENCE

Founder: ‘China Young Entrepreneurs Association’ **Beijing, Oct 2015-May 2018**

- Created a “by students, for students” finance and entrepreneurship competition in China
- Led a team which grew to 20 people over the course of 3 years, and provided guidance to schools in the cities of Guiyang, Shandong, and Shenzhen to start similar competitions
- Donated all profits towards migrant worker children’s education fees, fully funding 2 children

Treasurer: Student Council & Electrical Engineering Society **2017- 2018 and 2020- 2021**

- Organised and ran professional networking and social events for 200+ people (\$50,000 budget)
- Elected by peers for both roles, working in core teams of approximately eight people
- Modelled cash flow to help reduce the negative impact of COVID-19 on sponsorships

SKILLS, ACTIVITIES AND INTERESTS

Languages: English (native), Mandarin and Dutch (fluent), Spanish (professional), French (limited)

Programming languages: Python, JavaScript, C++, MATLAB, Julia, Go

Hobbies: Guitar, drums, bouldering

Awards: Boy Scouts of America *Eagle Scout*, highest award in Senior School for founding CYEA