

Antoine Valadon

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Education

King's College London

09/2022 – 2025 LONDON, UNITED KINGDOM

Physics | Bachelor of Science in Physics (Honours)

+ AKC (Associateship of Kings College) 2-year program

The Stephen Perse Foundation

09/2019 – 06/2022 CAMBRIDGE, UNITED KINGDOM

Physics, Mathematics, Further Mathematics, Computer Science | A-level

+ The Stephen Perse prize in mathematics

+ The Hunter prize in physics

Projects

Semi-autonomous path finding mars rover:

- 1 semester group project consisting of 5 members
- Colour detection algorithm processed with Pandas library; identifying colour marked points to travel to determined in python
- Calculated path translated to controller (Raspberry Pi)
- Documented successful solution in written report + slideshow presentation

PyD0(g)? + create-your-own guide:

- Coding practice website created with python flask backend + HTML, CSS, JS frontend
- PostgreSQL database to store user information, providing global leader board
- eval function used to compare user answer to expected output; >3s runtime permitted

Simulated annealing (shortest path algorithm):

- Utilised the temperature annealing process to model efficient solution to the Travelling Salesman Problem with python (Jupyter notebook)
- Over 3.3x more efficient than brute-force approach for 10 nodes
- Time complexity $O(\text{temp-range} * \text{length-path})$

Skills

Python, matplotlib, Pytorch, MATLAB, HTML, CSS, JavaScript, PostgreSQL, CI/CD

Work Experience

King's College London Student Union

10/2023 – 06/2024 LONDON, UNITED KINGDOM

Student Representative

- Tasked with attending constructive meetings as go-between for students and staff to find solutions to concerns



Syqel

06/2020 – 07/2020 LOS ANGELES, UNITED STATES

Intern (Virtual)

- Conducted in-depth research on business challenges and presented findings to founder
- Executed marketing strategies to promote unique media playing experience
- Analyzed pricing strategies and made recommendations for improvement

Languages

English (Native) |  French (Paternal/fluent) |  Greek (Maternal/strong)