Samuel Oliveira

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EDUCATION

University College London   **London**
Machine Learning Masters of Sciences (MSc)   *Class of 2024*
- Courses:Probabilistic & Unsupervised Learning(Gatsby Unit), Approximate Inference(Gatsby Unit), Applied DL.
- Master's Thesis: "Uncertainty quantification in LLMs" under Ilija Bogunovic's supervision.

Imperial College London   **London**
Biomedical Engineering Masters of Engineering: Computational Bioengineering Specialization   *Class of 2023*
- Final Classification: 78.45 % (First Class Honours).
- Dean's List on the 3rd and 4th years.
- Relevant courses: Reinforcement Learning, AI, Optimization, Computational Neuroscience, Information Theory.

PROFESSIONAL EXPERIENCE

Imperial College London   **London**
Research Assistant (Intern) at the Tanaka Group   *June 2023-Sep 2023*
- Continuation of my Master's Thesis on using SMC methods to predict eczema severity.
- Currently writing the manuscript for the paper "EczemaPF: a computationally efficient algorithm for predicting the evolution of eczema severity".

Goldman Sachs   **Birmingham**
Software Engineering Intern   *June 2022 – Aug 2022*
- Built from scratch a fully functional performance testing framework for a new web app hosted on AWS.
- Received a Returning Offer as a Full-Time Analyst.

Imperial College London   **London**
Undergraduate Research Assistant (UROP) under Dr Rahman Attar's Supervision   *April 2022-June 2022*
- Project Title: "Removing skin-colour bias in eczema severity scoring using image-to-image translation"
- Created a CycleGAN to change the skin colour of medical images while preserving eczema symptoms.
- Investigated ways to reduce the impact of inter-study image variability.

PROJECTS

Design of Computationally Efficient Algorithm for Predicting Eczema Severity   *October 2022 – Present*
- Implemented Sequential Monte Carlo methods to improve the computational efficiency of Bayesian inference model.
- Master's Thesis under Professor Reiko Tanaka's supervision. Collaborating with Dr Rob Moss at the University of Melbourne. Paper currently being written.

Deep Learning Group Project with Third Eye Intelligence   *October 2021 – June 2022*
- Developed a deep learning model that given a chest X-Ray, outputs similar chest X-Rays with distinct medical reports, to aid differential diagnosis.
- Collaborated with Third Eye Intelligence, an Imperial College start-up.

SKILLS

Coding:	Proficient in Python, PyTorch, SQL, C++, R, MATLAB and Terraform. Experienced with AWS.
Languages:	Fluent in Portuguese and English. Elementary Proficiency in Spanish and German.
Other Roles:	Outreach Student Ambassador at Imperial College. Student Representative during secondary school.