Grégoire Canchon

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Education

University of Edinburgh *Edinburgh, UK*
PhD in Environmental Science and Earth Observation *Jan 2024 - Present*
- Detecting and characterizing heatwaves in the Arctic
- Studying the impact of heatwaves on vegetation and global carbon cycle

University of Edinburgh *Edinburgh, UK*
MSc in Environmental Science and Earth Observation *Sept 2022 - Agust 2023*
- Courses: Active Remote Sensing, Environmental Modelling, Passive Earth Observation, Ecosystems and Global Change, Machine Learning, Statistical Learning
- **73% for Msc dissertation**

Queen Mary University of London *London, UK*
Bsc in Astrophysics *May 2019 - May 2022*
- Courses: General Relativity, Quantum Mechanics, Particle Physics, Programming, Cosmology, Labs kills, Statistical Physics
- **Graduated with Distinction**

Work Experience

Queen Mary University of London *London, UK*
Research Assistant *June 2022 - Aug 2022*
- Conducted a multidisciplinary research internship assessing the feasibility of photosynthesis on Earth-like rocky planets in close orbit around ultra-cool red dwarf stars
- First interdisciplinary research project between the School of Biology and the School of Physics and Astronomy at QMUL
- Designed a numerical model covering astrophysics and biology extents to explore photosynthesis on exoplanets, with conclusive results
- Research paper **accepted for publication** (MNRAS)
- **Technical Skills:** Python with NumPy, Matplotlib, Pandas.
- **Soft Skills:** Teamwork,Time Management, Communication, Modelling skills

University of Edinburgh *Edinburgh, UK*
Research Assistant *Sept 2023 - Present*
- Exploring environmental dynamics at the border between Angola and Namibia
- Producing timeseries products to support researchers conducting fieldwork
- Working with MODIS data and mapping various variables (Land Cover, Fire extent, Population density...)
- **Technical Skills:** QGis, USGS Earth Explorer, Python
- **Soft Skills:** Weekly reports, Time Management, Communication, Independent working.

University Projects

Building an Environmental model *Edinburgh, UK*
University of Edinburgh *March 2023 - August 2023*
- Developed a numerical model to study the relationship between permafrost thawing and carbon emissions.
- Carried out a remote sensing study of an Antarctic Island to understand 'greening' dynamics in Antarctica.
- This project combined my interests in Ecology and coding, as well as focusing on a region of great interest for me.
- **Technical Skills:** Python, QGis
- **Soft Skills:** Modelling skills, Independent research

Building an Astrophysics model *London, UK*
Queen Mary University of London *Sep 2021 - Jun 2022*
- Dissertation project used numerical models in python to calculate the flux of radiation that can be used for photosynthesis incident upon planets in the habitable zone around different types of star
- The project led to further research and the submission of a research paper, awaiting publication
- This dissertation linked my passions for Physics and Biology and Ecology.
- **Technical Skills:** Python, Overleaf, LaTeX.
- **Soft Skills:** Time Management, Presentation skills, Report writing.

Skills

Programming Python (Pandas, NumPy, Matplot lab etc.), R(ggplot2), QGis, OpenModel, ERDAS, OpenRefine, Simile
Miscellaneous LaTeX(Overleaf/R Markdown), Microsoft Office, Git.

Languages

English Professional proficiency
French Native proficiency

References available upon request.