QUENTIN PALETTA

European Space Agency (ESA) ◇ Frascati, Italy
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EDUCATION

University of Cambridge - PhD in Computer Vision 2019 - 2023
Supervised by Prof. Lasenby (Dept. of Engineering) and Prof. Schönlieb (Dept. of Mathematics).
International collaborations with Stanford, NREL, Mines ParisTech and Open Climate Fix.
Journal publications: Solar Energy, Applied Energy, 3 papers under review and one review in preparation.
Conferences: EU-PVSEC 20, NeurIPS 20, ICML 21, CVPR 22 (Best Paper Award), WCPEC-8.

University of Cambridge - MPhil in Energy Technologies 2018 - 2019
Climate change mitigation, Energy efficiency, Electricity generation & Computer vision. Grade : First
Audited machine learning and deep learning modules

Ecole Centrale Paris (Université Paris-Saclay) - MSc in Engineering 2016 - 2018
Mathematics, Physics, Electrical engineering, Machine learning, Economics. GPA : 3.99/4.3

Lycée Hoche - Scientific Preparatory Classes 2014 - 2016
Mathematics, Physics, Engineering and Computer science. GPA : A

EXPERIENCE

Research fellow *(European Space Agency)* July 2023 - Present

· Solar energy meteorology with computer vision.
· Research interests: Video analysis, Image segmentation, Transfer learning, Physics-based machine learning, Object tracking and Explainable AI.
· Collaboration between the European Space Research Institute (ESRIN) and the Climate Office at the European Centre for Space Applications and Telecommunications (ECSAT)

Research Project *(Master and PhD)* Jan 2019 - June 2023

· Vision-based solar forecasting from sky images and satellite observations.
· Industrial collaboration with Engie Lab CRIGEN.

Carbon Diet *(Co-inventor)* Sept 2021 - Present

· Card game at the interface of food and climate change (2-6 players, 30min).

AXO Energy *(Co-founder)* Jan 2018 - Jan 2020

· Designed a Datalogger for solar pumps in developing countries (three running installations).
· Finalist of an Entrepreneurship Contest out of 60 projects.

Nano satellite - EM2C Laboratory *(Thermal Designer)* Jan 2018 - June 2018

· Worked in a team of 15 people on the design of a lunar nano satellite funded by Thales.
· Simulated the satellite thermal behaviour during its mission on ESA's software ESATAN-TMS.

SKILLS

Computer Languages	Python (Pytorch, TensorFlow, Keras), MATLAB, Git
Software & Tools	LaTeX, Excel
Languages	English (IELTS : C1), German (AbiBac, C1), French (Native speaker)