Guillaume ASTRUC
PhD Student

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🖥 My Webpage

 Github   in Linkedin   Twitter

Education

2023–present	**PhD, Computer Science & Engineering**, *ENPC/IGN*, Paris.
	Subject: Self-supervised cross-modal geospatial learning
	Advisors: Loic Landrieu, Nicolas Gonthier and Clément Mallet
2021–2022 :	**Master Data Science**, *Institut Polytechnique de Paris*, Palaiseau, France.
2018–2022 :	**Engineering school**, *ENSAE Paris*, Palaiseau, France, Graduated statistician-economist engineer.

Academic Activities

Publications

2024 **Guillaume Astruc, Nicolas Gonthier, Clement Mallet, Loic Landrieu**, AnySat: An Earth Observation Model for Any Resolutions, Scales, and Modalities, *CVPR 2025*.
Highlight (Top 10%)

2024 **Guillaume Astruc, Nicolas Gonthier, Clement Mallet, Loic Landrieu**, OmniSat: Self-Supervised Modality Fusion for Earth Observation, *ECCV 2024*.

2024 **Guillaume Astruc, Nicolas Dufour, Ioannis Siglidis, Constantin Aronssohn, Nacim Bouia, Stephanie Fu, Romain Loiseau, Van Nguyen Nguyen, Charles Raude, Elliot Vincent, Lintao XU, Hongyu Zhou, Loic Landrieu**, OpenStreetView-5M: The Many Roads to Global Visual Geolocation, *CVPR 2024*.

Teaching

2025 **Teacher**, *Deep Learning for Remote Sensing*, ENSG.
- Deep Learning for 3D
- Deep Learning for Temporal Data

2025 **Teaching Assistant**, *Introduction to Data Science*, ENPC.
- Statistical Inference
- Linear and Logistic Regression Models
- PCA
- Clustering
- Validation and Regularization
- Introduction to Deep Learning

2025 **Teaching Assistant**, *Deep Learning for Remote Sensing*, ENSG.
- Intro to Deep Learning
- Deep Learning for Multispectral Images
- Deep Learning for 3D Data

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- Deep Learning for Multispectral Images
- Deep Learning for 3D Data
- Deep Learning for Temporal Data

2024 **Teaching Assistant**, *Machine Learning*, ENSG.
- Supervised Learning
- Classification

Reviewing

2024	**Reviewer for EarthVision (CVPRW) 2024**.
2025	**Reviewer for EarthVision (CVPRW) 2025**.

Recent open-source repositories

147 ★, 11 ⑂ ⍟ **gastruc/osv5m**, *Owner*.
71 ★, 5 ⑂ ⍟ **gastruc/omnisat**, *Owner*.
118 ★, 7 ⑂ ⍟ **gastruc/anysat**, *Owner*.

Research Experience

2022 – 6 months	***Unsupervised Re-Identification for child-clinician recognition for Autism behaviour detection***, *INRIA*, Sophia-Antipolis, France.
Advisor :	**Dr. François Bremond**, *Research Director*, Sophia-Antipolis, France (*Personal Webpage*)
2021 – 6 months	***"Deep reinforcement learning and deep learning 3D point cloud classification"***, *ONERA*, Palaiseau, France.
Advisor :	**Dr. Adrien Chan Hon Tong**, *Researcher*, Palaiseau, France (*Personal Webpage*)
2020 – 6 months	***"Multi-temporal data and segmentation from satellite imagery to create a macroeconomic indicator"***, *QuantCube Technology*, Paris, France.
2020 – 3 months	***"Robust estimation of the mean by a Median-of-Means approach and Tukey depth"***, *CREST*, Palaiseau, France.
Advisor :	**Prof. Guillaume Lecué**, *Professor*, Cergy, France (*Personal Webpage*)

Miscellaneous

Research Interests

- Computer Vision
- Self-supervised learning
- Cross-modal learning
- Remote Sensing
- Fundation models

Languages spoken

French, *Native*

English, *Fluent*, C1

German, B2

Associative Commitments

2024-**2026**	Member of the PUC Running Bureau
2019-**2020**	Vice-President of the ENSAE Student Office
2019-**2020**	Member of the ENSAE Sports Bureau