

Pierre Prandi

Satellite altimetry research engineer

18 avenue de Lespinet
31400 Toulouse, FRANCE
+336 25 09 52 00
prandi.pierre@gmail.com
pierre-prandi.github.io

Work experience

2017–present **Oceanography R&D engineer**, C.L.S, France, www.cls.fr/en/.
o prototyping and implementing new algorithms for improved altimeter inter-calibration in preparation for future high resolution products,
o developing (algorithms and processing chains) the next generation of ice-covered sea level products at high latitudes for CMEMS sea level,
o investigating the benefits of machine learning techniques for altimeter data validation.

2017–present **HyDrones Data Officer**, C.L.S, France, hydrone.cls.fr/en/.
HyDrones is an innovative project aiming at designing a small altimeter for inland water monitoring using flying aerial UAVs
o writing and testing of all onboard software (C/C++),
o development of an operational post-processing chain for product delivery,

2012–2017 **Calibration & Validation engineer**, CLS, France.
o operational validation of SARAL/AltiKa satellite altimetry data, anomaly detection, error budget estimation,
o global mean sea level validation against in-situ data at climate scales, uncertainties evaluation for global and regional sea level trends.

Education

2009–2012 **PhD**, Université Paul Sabatier.
Sea surface height retrieval from satellite altimetry in the Arctic Ocean,
o building a multi-mission regional sea level dataset from along-trak data,
o extracting long-term ocean circulation variability features from this dataset.

2008–2009 **Master's Degree**, Université Pierre et Marie Curie, Ocean, Atmosphere, Climate and Remote Sensing.
o ocean and atmospheric circulation,
o climate dynamics.

2005–2008 **Engineering Degree**, Ecole Centrale de Lyon.
One of the top 10 French Engineering schools, admitted after competitive entrance examination.
o courses in maths (signal processing theory), physics,
o third year major in Ocean Engineering (ocean mechanical effects on coastal and offshore facilities) and computational fluid dynamics,

Skills

Programming o Python including data processing libraries (numpy, scipy, pandas),
o working knowledge of C and C++,
o use of version control systems.

Communication o lead author of peer-reviewed publications,
o ability to present in scientific meetings,
o writing technical notes and reports.

Languages o native french speaker,
o advanced english level.