

Hugo Peyriere

Research Interests

Ocean and Atmosphere Dynamics.

Education

2021 – 2022	MSc in Mechanics (Ocean and Atmosphere) - Institut Polytechnique de Paris
2020 – 2021	MSc in General Structural Engineering - Imperial College London
2017 – 2021	Cycle Ingenieur Polytechnicien (MSc equivalent) - Ecole Polytechnique
2018 – 2019	BA in History - Universite Paris-Nanterre
2015 – 2017	Classe Preparatoire aux Grandes Ecoles (Physics, Mathematics & Chemistry) - Lycee Sainte Genevieve

Research Experience

APRIL – NOV. 2022	Visiting Graduate Student - Air-Sea Interaction Laboratory at the Scripps Institution of Oceanography (SIO), San Diego, US Examined upper ocean current, vorticity, divergence and strain observations through coordinated Wave Glider mounted ADCP measurements. Advisors: Luc Lenain , Nicholas Pizzo, Laurent Grare.
SEPT. 2020 – JUNE 2021	Research Assistant - STICERD Laboratory at the London School of Economics and Political Science (LSE), London, UK Worked on the environmental and carbon impact of consumption according to income, and inflation inequality across income groups. Advisors: Xavier Jaravel , Lucie Gadenne, Marion Dumas.
JUNE – DEC. 2019	Research Assistant - Global Green Growth Institute, Seoul, KR Developed a green growth index to assess country sustainable development performance, and the associated public policy numerical simulation tool. Advisor: Lilibeth Acosta-Michlik .

Publications and Presentations

2022	Hugo Peyriere, Luc Lenain, Laurent Grare, Nicholas Pizzo, Nicholas Statom, and J. Thomas Farrar. Observation of new surface ocean currents from autonomous surface vehicles. <i>To Be Submitted</i> , 2022
2022	S-MODE Science Team Meeting (<i>invited talk</i>) Upper ocean current measurements using Wave Gliders during the S-MODE Pilot.

2020	Lilibeth A. Acosta, Prapti Maharjan, Hugo Peyriere, and Rusyan Jill Mamiit. Natural capital protection indicators: Measuring performance in achieving the sustainable development goals for green growth transition. <i>Environmental and Sustainability Indicators</i> , 8:100069, 2020
2019	2nd Paris Peace Conference (<i>poster</i>) Enabling climate diplomacy through the use of Paris Agreement Article 6.2 : linking the emissions-trading schemes of two or more countries.
2019	7th Tokyo International Conference on African Development (TICAD7) (<i>talk</i>) A green growth index and simulation tool to evaluate country performances and guide policy.

Fellowships and Awards

2020 – 2021	Fellowship: MSc Cluster Scholarship (50% Tuition Fee) & Departmental Scholarship (50% Tuition Fee) - Imperial College London
2017 – 2021	Award: Outstanding student distinguished through his dedication to the student body - Ecole Polytechnique

Sea Experience

JULY 2022	FATIMA (Fog And Turbulence Interactions in the Marine Atmosphere) - Office of Naval Research, Atlantic Ocean
NOV. 2017 – APRIL 2018	Deputy Navigation Officer - Destroyer-class French Navy Vessel D621, Mediterranean, Red Sea, Indian Ocean & Persian Gulf

Work Experience

MARCH – SEPT. 2020	Intern - Lazard Sovereign Advisory Division, Paris, FR Economic and infrastructure advisory to developing nations' governments and finance ministries. Designed economic and debt sustainability models, prepared presentations, and wrote notes for the 2020 sovereign debt restructurings of Ecuador and Zambia.
SEPT. 2017 – APRIL 2018	Commissioned Officer - French Navy, East Africa & Middle East Part of Ecole Polytechnique military service. Followed a 2-month French navy officer course. Embarked for a 6-month deployment at sea on a 200 people/150 metre ship. As Deputy Logistics and Supply Officer, managed ten sailors, completed high-level internal audits and administrative missions, managed logistics and supplies, took charge of the ship's PR and interacted with foreign dignitaries. As Deputy Navigation Officer, took daily shifts at the ship bridge.

Community Involvement

2021 – 2022	Street Library - ATD Quart Monde Weekly street library and help with homework with children aged 5–14 in an underprivileged area of the Paris metropolitan area.
2018 – 2019	Vice-President - Action Sociale de la Kes Student charity at Ecole Polytechnique organizing a range of social actions: language and mathematics classes to refugees, street library, tutoring, homeless soup kitchen. Coordinated 30 volunteers and a 20 000 € budget from donations and fundraising.

Computational skills

PROGRAMMING LANGUAGES	Python, Fortran, R, Stata, Java, Matlab, SQL, VBA.
TOOLS AND SOFTWARE	Jupyter notebooks, LaTeX, Abaqus, Adaptic, Gmsh, Photoshop.

Languages and Nationalities

FRENCH	Native language.
ENGLISH	Native language.
SPANISH	Full proficiency.
NATIONALITIES	French, Honduran and British.

Other Activities and Interests

READING	Literature, Anthropology, Intersectional Politics, Anarchism.
SPORTS	Open Water Swimming, Boxing, Mountain Biking, Hiking.
MUSIC	Classical Guitar, Electronic Music.
2021	Energy Commission - Europe Ecology Les Verts (French Green Party) Worked on technical aspects of the Energy program for the 2021 french regional elections. Tried and failed to argue for nuclear power.
2019	Volunteer Analyst - Le Grand Continent Researched articles for the energy and environment column of a journal on european geopolitics.

References

Dr. Luc Lenain:

llenain@ucsd.edu

Scripps Institution of Oceanography
9500 Gilman Drive #0230
La Jolla, CA 92093, USA
+1 858-822-4425

Dr. J. Thomas Farrar:

jfarrar@whoi.edu

Woods Hole Oceanographic Institution
266 Woods Hole Road, MS 29
Woods Hole, MA 02543, USA
+1 508-289-2691

Dr. Alexandre Stegner:

alexandre.stegner@lmd.ens.fr

Ecole Polytechnique, CNRS Laboratoire Météorologie Dynamique
Rte de Saclay,
91120 Palaiseau, France