

## **Philippe VERY - EUROCONTROL**

Philippe Very is an environmental expert and senior data scientist in EUROCONTROL's Aviation Sustainability Unit, which develops environmental impact assessments, models, tools and forward-looking solutions and provides technical support to European institutions, Member States and industry.

Philippe works at the intersection of machine learning and the environmental impact of aviation, specialising in the use of machine learning models for accurate fuel prediction and contrail modelling. His work on contrails focuses on integrating remote sensing technologies - including satellite imagery and ground-based camera images with deep learning approaches to develop monitoring and prediction models. These initiatives also aim to validate and improve physical models of contrail formation.

Philippe is also driving an initiative called ContrailNet to share scientific data among the research community and serve as a sandbox for developing new modelling strategies.

Philippe joined EUROCONTROL in 2022. He has previously worked as a senior data scientist in various economic sectors, including transport, health, and finance.

Recent publications:

- Ramon Dalmau, Philippe Very, and Gabriel Jarry. On the causes and environmental impact of airborne holdings at major european airports. *Journal of OpenAviation Science*, 1(2), 2023.
- Gabriel Jarry, Philippe Very & Ramon Dalmau. The Effectiveness of Large Language Models for Textual Analysis in Air Transportation: A case study for categorising weather-related air traffic flow management regulations (Preprint, 2024)
- Victor Bouvier, Philippe Very, Clément Chastagnol, Myriam Tami, and Céline Hudelot. Robust domain adaptation: Representations, weights, and inductive bias. In *Machine Learning and Knowledge Discovery in Databases: European Conference, ECML PKDD 2020, Ghent, Belgium, September 14–18, 2020, Proceedings, Part I*, pages 353–377. Springer, 2021