



# Edition 2022

## Climate Change: Challenges and Issues in Data Science

Preliminary Program  
This version (April 8) remains preliminary and subjects to change

### 16 May 2022 (Time of Paris)

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14 : 00	Welcome and introduction - <i>Hervé Le Treut</i>
15 : 00	3 presentations about the workshop themes
16 : 00	Workshop
17 : 15	Break
17 : 30	Introduction: Data science to address climate science issues - <i>Venkatramani Balaji</i>
18 : 20	End of the day

### 17 May 2022

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10 : 00	Introduction of the day – What important climate science questions to address with data assimilation techniques? - <i>Alban Farchi</i>
10 : 50	Combining machine learning and data assimilation - <i>Marc Bocquet and Julien Brajard</i>
11 : 40	The Institut Pierre-Simon Laplace - <i>Robert Vautard</i>
12 : 20	Break
13 : 20	IPSL Climate Graduate School - <i>Hervé Le Treut</i>
14 : 00	The Doctoral School of Environmental Sciences in Ile de France (SEIF - ED 129)
14 : 30	Break
15 : 00	Online discussions from current and past master and PhD students on career opportunities and openings
16 : 30	Applications of inverse modeling methods to atmosphere and carbon cycle data - <i>Frédéric Chevalier</i>
17 : 20	End of the day
17 : 30	A taste of Paris



## 18 May 2022

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- 12 : 00 International Development of Sorbonne University - *Christopher Cripps*
- 12 : 50 Statistical modeling - *Soulivanh Thao*
- 13 : 40 Downscaling and bias correction methods for models - *Bastien François*
- 14 : 30 Online discussion (Working groups - in autonomy / semi autonomy)
- 16 : 00 Break
- 17 : 00 Attribution of compound events to climate change - *Aglae Jezequel*
- 17 : 50 Presentation about climate (to be confirmed)
- 18 : 40 End of the day

## 19 May 2022

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- 11 : 00 Introduction: Machine Learning - *Anastase Charentonis*
- 11 : 50 Machine Learning for surrogate modeling, applications to climate model tuning - *Redouane Lguensat*
- 12 : 40 Break
- 13 : 40 Online discussions and reports from the working groups
- 16 : 10 Break
- 16 : 40 Deep learning in marine ecology - *Sakina-Dorothee Ayata*
- 17 : 30 Final Debate & End of the School - *Hervé Le Treut*

