Carole Doucerain
Curriculum Vitae

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Education

2020-2021	**M.Sc. Master of Geosciences - 1st year**, *Ecole Normale Supérieure*, Paris, *M1*.
2019–2020	**B.Sc. Bachelor of Geosciences - 3rd year**, *Ecole Normale Supérieure*, Paris, *L3*.
2017–2019	**Two years of selective class to the competitive exams to the "Grandes Ecoles"**, *Lycée Henri IV*, Paris, *L1/L2. Physics, chemistry, mathematics.*
2017	**High school diploma**, *Lycée Descartes*, Montigny-le-Bretonneux, France, *Science major*.
2013–2015	**Two years abroad**, *Saint Maur International School*, Yokohama, Japan.

Experiences

Research internships:

2021-2022 6 months	Geostatistical team of the Centre of Geosciences, LES MINES DE PARIS, supervised by Chantal de Fouquet. *Topic*: Comparison of linear and non-linear geostatistical methods for the estimation of PAH (polycyclic aromatic hydrocarbons) content in French soils, based on the RMQS data.
2021 5 months	Centre for Hydrogeology and Geothermics (CHYN) of UNIVERSITY OF NEUCHÂTEL, Suisse **Master 1 internship (M1)** supervised by Philippe Renard. *Topic*: Surface mass balance modelling of the Tsanfleuron Glacier (Switzerland).
2020 6 weeks	Atmosphere, Space Observations Laboratory (LATMOS) of SORBONNE UNIVERSITY, Paris, France **Bachelor internship (L3)** supervised by Camille Viatte. *Topic*: Analysis of fine particulate matter ($PM_{2.5}$) pollution events during the year 2020 in Paris.

Field Trips:

2019	Pedology and Cartography field trip in the French Alps, Dignes-les-Bains, France. (2 weeks)

Ornithology:

2022 (May)	One month volunteering in the bird ringing station of Antikythera, ABO (Antikythera Bird Observatory), Hellenic Ornithological Society, GREECE Supervised by Christos Barboutis.

Languages

Français	Mother tongue	
English	Written and spoken fluently	*Two years in an English-speaking international high school, Japan*

Skills

Computer	Bash, Python, Latex
Data analysis	PCA, inverse problems, geostastistics

Fields of interest

Geosciences	Atmospheric pollution, climate change, organic pollutants, soil biogeochemistry, fluid dynamics, hydrogeology.
Hobbies	Mountain hikking, juggling, bird watching, drawing.
Other	Ornithology, Mathematics, Ecology.

Bibliography

2021	***Published:*** Viatte, C., Petit, J.E., Yamanouchi, S., Van Damme, M., Doucerain, C., Germain-Piaulenne, E., Gros, V., Favez, O., Clarisse, L., Coheur, P.F., Strong, K., Clerbaux, C. ; Ammonia and $PM_{2.5}$ air pollution in Paris during the 2020 COVID lockdown. *Atmosphere, 12, 160.*