

# Barbara Gendron

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5B avenue de Joinville, 60500 Chantilly, France

## Broad profile

Engineering student with qualifications in Applied Mathematics and Computer Science  
Fluent in English, notions in Spanish and Japanese  
Efficient, diligent and autonomous

## EDUCATION

- 2022-2023 **University of Luxembourg**, Master of Data Science (second year) as a double diploma  
Esch-sur-Alzette, Luxembourg  
‣ **Major** in Machine and Deep Learning, Computer Vision and applications to Medical Imaging, Natural Language Processing, Network analysis  
‣ **Minor** in Actuarial Science and Non-parametric Statistics
- 2020-2023 **Mines Nancy engineering school**, Industrial Engineering and Applied Mathematics department  
Nancy, France  
‣ **Major** in Data Analysis, Machine/Deep Learning, Probabilities, Partial Differential Equations, Numerical Analysis and Stochastic Methods  
‣ **Minor** in Physics, Molecular Biology and Bioinformatics  
‣ **Research project** in Natural Language Processing based on multilingual information retrieval, leading to the writing of a survey on multilingual language models properties. The project is carried out under the supervision of the LORIA (French Computer Science laboratory)
- 2018-2020 **Saint-Louis 'Classe Préparatoire'**. Intensive undergraduate two-year study course preparing for the competitive entrance examinations to the French *Grandes Écoles* which are top French and highly-selective institutions  
Paris, France  
‣ Linear Algebra, Advanced Calculus, Electromagnetism, Signal Processing, Algorithmic
- July 2018 **Jean Rostand High School**, *Baccalauréat Scientifique section Européenne* (high school leaving diploma with a major in Mathematics and English) passed with the congratulations of the Jury (19.36/20)  
Chantilly, France

## EXPERIENCE

- August 2022 **Data Scientist intern, GRTgaz, Bois-Colombes, France**  
June 2022  
‣ First working experience as a Data Scientist trainee, part of the Information Systems Direction of a French company specialised in high-pressure gas transportation.  
‣ Pre-processing technical data from gas infrastructures and development of a regression model in a predictive maintenance context.  
‣ Learning and mastering of Dataiku DSS platform to proceed data preparation and analysis.  
Communication skills Practical Data Science Techniques Team work
- March 2022 **Quality Manager, FORUM EST-HORIZON, Nancy, France**  
February 2021  
‣ Recruitment fair organized by Mines Nancy students (23 members), which gathers 55 companies and welcome 1500 visitors every year  
‣ In charge of checking correctness and coherence of all visuals and written supports produced by the association  
Monitoring diverse activities Giving feedback and assistance Ensuring clarity of information

July 2021	<b>Production operator intern, CARTAMUNDI FRANCE, Saint-Max, France</b>
June 2021	<ul style="list-style-type: none"> <li>&gt; Packaging playing cards and board games such as Chess, Mikado and dice</li> <li>&gt; Driver's assistant on the offset that prints card templates</li> </ul> <div>Team work Factory routine Organisation skills</div>
May 2021	<b>Science communicator, LA MAIN À LA PÂTE, Paul Lévy primary school in Saint-Max, France</b>
November 2020	<ul style="list-style-type: none"> <li>&gt; Preparing and leading twelve afternoons of scientific workshops around the concept of motion</li> <li>&gt; Implementing a group project for the pupils, guiding experiments leading to the building of a small vehicle</li> </ul> <div>Teaching skills Workshops conception Communication skills</div>

## SKILLS

<b>Programming languages</b>	Python (Numpy, Matplotlib, Scikit-Learn, Tensorflow, Keras), R, Matlab, SQL requests
<b>Development tools</b>	Visual Studio Code, PyCharm, Google Colab, Dataiku DSS
<b>Office tools</b>	LaTeX, Office : Word, Excel, PowerPoint
<b>Other tools</b>	Final Cut Pro X (video editing)

## LANGUAGES

<b>French</b>	Mother tongue
<b>English</b>	Fluent. Cambridge English Proficiency Certificate, C1 level, obtained in June 2021
<b>Spanish</b>	Communication skills
<b>Japanese</b>	Basic notions. Japanese Level Proficiency test, N5 level obtained in December 2021

## INTERESTS, CLUBS AND SOCIETY INVOLVMENT

June 2021	<b>In charge of partnerships arrangements, TEDxMINESNANCY, Nancy, France</b>
October 2020	<ul style="list-style-type: none"> <li>&gt; Member of the TEDxMINESNANCY student group which organise a one-day TED event at Mines Nancy.</li> <li>&gt; In charge of prospecting for partnerships agreements with companies in order to fund the presence of recognised speakers</li> </ul> <div>Branding Initiative Being source of proposals</div>
Today	<b>Voluntary worker as science communicator assistant, PAVILLON DE MANSE, Chantilly, France</b>
2015	<ul style="list-style-type: none"> <li>&gt; Volunteer in the Pavillon Jacques de Manse, a high place of French industrial heritage which offers many scientific workshops</li> <li>&gt; In charge of creating communication supports by editing video clips describing the workshops offer</li> <li>&gt; Assisting workshops conception and animation with qualified science communicators</li> </ul> <div>Video editing Sense of pedagogy Running projects Communication skills</div>

<b>Music</b>	Electric guitar within a group (7 years), involved in some concerts
<b>Sport</b>	Tennis (4 years) and table tennis (2 years), member of the ultimate frisbee university team