

# Victoria Brami | Resume

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📄 <https://victoria-brami.github.io>

## Looking for a 4-6 months Research Internship in Multimodal learning (Vision/Language/Audio)

### Education

**MsC. Vision and Applied Mathematics (MVA)** **ENS Paris-Saclay, FRANCE**  
*First Class Honours (17.6 / 20)* *2021–2022*

- Ranked #1 in Mathematics according to Shanghai rankings (2020, 2021, 2022)
- First Semester: 3D Computer Vision, Convex Optimization, Computational Statistics, Numeric Imaging, Object Recognition.
- Second Semester: Speech and Natural Language Processing, Advanced Deep Learning, Kernel Methods, Deep Reinforcement Learning and Audio Signal Analysis.

**Master's Degree in Mathematics (ENPC)** **Ecole des Ponts ParisTech, FRANCE**  
*First Class Honours (GPA 3.9).* *2018–2022*

- Top-Tier French Engineering School, Department of Mathematics and Computer Science.
- Major: Machine Learning, Computer Vision, Operational Research, Stochastic Processes.

**Lycée Pasteur - Bachelor Degree** **Neuilly Sur Seine, FRANCE**  
*First Class Honours,* *2016–2018*

- Two intensive years in Mathematics and Physics with Engineering Option. to prepare Engineering School Competitive Exam Entrance.

### Professional Experience

**Applied Research Intern - Valeo AI** **Paris, FRANCE**  
*Supervised by Patrick Perez.* *Apr. 2022– Sept. 2022*

- 3D Facial, Hand and Human Pose Body Estimation for a Driver Monitoring System.

**Research Intern - ENS Paris and INRIA** **Paris, FRANCE**  
*Supervised by E. Dupoux from Meta and LSCP lab.* *Mar. 2021– Jul. 2021*

- In Cognitive Machine Learning Team (CoML), in the Department of Cognitive Science.
- Compared common Automatic Speech Recognition Models performances (supervised and unsupervised) to model Human Speech Perception.
- Developed a data storing website in Python.

**Deep Learning Scientist - StereoLabs** **Montrouge, FRANCE**  
*Deep Learning and 3D Computer Vision* *Jul. 2020– Jan. 2021*

- 3D skeleton inference on images from incomplete 3D data, leveraging full body context (PyTorch, OpenCV).

## Physics Teaching Assistant

Neuilly-sur-Seine, FRANCE

Sept. 2019 – Mar. 2020

- Interrogated students on a weekly basis in physics to train them for the Engineering Schools competitive entrance exams.

## Personal Projects

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### Nepthune - A University Grant Platform

Developing a website to ease the access for students to any kind of scholarship.

Learning on my own full-stack development.

Feb. 2022 – present

### Building Electrical Skateboard

Built an electric skateboard from scratch.

2020–2021

### European Tour on Train

Travelled across 5 European countries: France, Germany, Slovenia, Italy, Switzerland. Aug. 2021

## Academic Projects

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### Study of Character-Level Language Model

Supervised by Benoit Sagot and Emmanuel Dupoux

Mar. 2022–Apr. 2022

- Compared Character-based LM to common SOTA word-based LM (mBert) on multilingual classification and QA tasks.

### Image classification with Kernel Methods

Supervised by Inria THOTH team

Feb. 2022–Mar. 2022

- Kaggle data challenge to classify images relying on Kernel models.

### Image Completion using GANs

Supervised by Yann Gousseau.

Dec. 2021–Feb. 2022

- Ablation study on a GAN to render the inpainting result more consistent locally and globally.

### Action-conditioned 3D human motion synthesis

Supervised by Gül Varol (Imagine, ENPC).

Dec. 2021–Feb. 2022

- 3D human motions with generative models (VAE transformers).

### Using Mixture of Experts (MoE) to model Global warming

Supervised by Stéphanie Allasonnière (Prairie).

Jan. 2022

- Proposed a refined GMM-model to explain annual temperature variations.

### Real-time Swimmer Tracking (Sciences 2024)

Supervised by Vincent Lepetit (Imagine, ENPC).

Feb. 2020–Jun. 2020

- In partnership with Sciences 2024, developed a model to track swimmers in realtime in the view of the Olympic Games in 2024.

### Realtime pricing system for self-service vehicle application

Supervised by Frédéric Meunier (CERMICS, ENPC).

Oct. 2019–Feb. 2020

- o Proposed a simulation to model the self-resupplying of parisian bike stations.

## Computer skills

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**Frameworks:** Linux, Git/Gitlab, Latex, Beamer Microsoft Office

**Programming Languages:** Python (advanced), C++ (Intermediate), HTML/CSS/Javascript (intermediate), Django

**Programming Packages:** PyTorch, OpenCV, Huggingface, optuna, pandas, scikit-learn, tensorboard, wandb, etc.

## Languages

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**French:** Mother-tongue. C2

**English:** Proficiency (TOEIC in 2018, FCE in 2014). C1-C2

**Japanese:** Conversational, lived in Tokyo for more than 6 years. B1-B2

**Spanish:** Conversational. B1-B2

**Chinese:** Beginner, 2+ years. A2

**Italian:** Beginner. A2

## Community and Volunteering Experience

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**Maraudes** **Paris, FRANCE**  
Discussing and providing drinks and hygiene kits to homeless people. *2020–present*

**MRI Annotation application** **Bordeaux Hospital, FRANCE**  
Developed an app to help cardiologists to annotate scars on MRIs. *2021*

**Treasurer at ENPC Student Art Club** **Champs-Sur-Marne, FRANCE**  
In charge of the treasury and the organization of artistic events. *2019–2020*

**High School Teaching Assistant** **Neuilly-sur-Seine, FRANCE**  
Tutored high school students in mathematics and physics. *2017–2018*

## Interests

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- **Sports:** Gymnastics, Skate, BreakDance, Climbing, Golf.
- **BasketBall:** University Championships, member of the school team.
- **Travelling** (USA, Mexico, Canada, Japan, etc.)
- **History and Foreign countries culture**