

# Enrique GALVEZ

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Born on May, 19, 2002 | Nationality: French

## Work Experience

- **LIP6**, PHD in HPC/AI in the ALSOC team (Systems-on-Chips) February - July 2024  
Subject: Modeling and optimization of execution frameworks for deep neural networks on heterogeneous architectures: memory management, energy efficiency, and parallelism.
- **SNCF Réseau & SATIE**, Research Intern for 6 months February - July 2025  
Subject: Real-time railway default detection using transformers on embedded GPUs
- **INRIA Bordeaux**, Research Intern for 5 months September 2024 - January 2025  
Subject: Efficient scheduling of Transformers with StarPU
- **LIP6**, Research Intern for 5 months in the ALSOC team (Systems-on-Chips) February - July 2024  
Subject: Optimization of deep learning convolutions for inference on SoCs
- **Barcelona Supercomputing Center**, Research Intern for 3 months May - July 2023  
In the SONAR team (SOftware research vehicles for New ARchitectures)  
Subject: Vectorization of deep learning kernels
- **LIP6**, Research Intern for 6 weeks in the ALSOC team June 2022  
Subject: Optimization of the parallel execution of an image processing application

## Education & Diplomas

- **Sorbonne University**, EDITE doctoral school 2025 - 2028  
– **PHD in Computer Science**, funded by ENS Lyon (expected: 2028)
- **École Normale Supérieure de Lyon**, Computer Science Department 2021 - 2025  
– **ENS De Lyon diploma** with major in Computer Science 2025  
– **Master's degree** in Computer Science with highest honors (16,42/20) 2024  
– **Bachelor's degree** in Computer Science with high honors (15,63/20) 2022
- **Lycée du Parc, Lyon**, Preparatory class: MPSI, MP\* 2019 - 2021
- **High School Diploma**, Scientific section, Mathematics specialty, European section (in-depth english classes), with highest honors and with jury's congratulations (19/20) 2019

## Competitions

- SWERC (International programming contest): team ranked 45/120 2023
- Le Shaker (National programming contest): ranked 49 over +1000 participants 2022
- Olympiades académiques de mathématiques: copy noted for the quality of its content 2018
- "Faitez de la science" Competition: 2nd regional prize 2017

## Skills

<b>Programming</b>	Very good mastery of C, C++, Java, Python, OCaml, bash, L <sup>A</sup> T <sub>E</sub> X Good mastery of many others: assembly, haskell, html/CSS, JavaScript, SQL, CUDA...
<b>Computer Science</b>	Machine learning (theory, PyTorch, Tensorflow...), algorithmic complexity, compilation, high performance computing, computer architecture, distributed/parallel computing
<b>C1 level in English</b>	Certified by Cambridge's C1 advanced certification
<b>Good level in Spanish</b>	Estimated C1 level
<b>Hobbies</b>	Karate Shotokan black belt, Competitive practice of sailing