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   **2019**
  english classes), with highest honors and with jury's congratulations (19/20)

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**
- "Faites de la science" Competition: 2nd regional prize   **2017**

Skills

Programming	Very good mastery of C, C++, Java, Python, OCaml, bash, LaTeX Good mastery of many others: assembly, haskell, html/CSS, JavaScript, SQL, CUDA...
Computer Science	Machine learning (theory, PyTorch, Tensorflow...), algorithmic complexity, compilation, high performance computing, computer architecture, distributed/parallel computing
C1 level in English	Certified by Cambridge's C1 advanced certification
Good level in Spanish	Estimated C1 level
Hobbies	Karate Shotokan black belt, Competitive practice of sailing