

Valentin Six

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EDUCATION

Georgia Institute of Technology

Master's in Computer Science ; Machine Learning Specialization

Coursework: Machine Learning, Deep Learning, Algorithms, Robotics

Atlanta, USA

2024 – 2025

Current GPA: 3.875/4.0

Télécom SudParis

Bachelor's and Master's in Engineering

Coursework: Applied Statistics, Stochastic Processes, Bayesian Estimation, Machine Learning

Évry, France

2022 – 2025

GPA: 3.93/4.0 ; ranked 14th/216 students

Lycée Pierre de Fermat

"Classe Préparatoire" program for national entry exams to French Grandes Écoles

Coursework: Mathematics, Physics, Chemistry, Engineering

Toulouse, France

2020 – 2022

GPA: 3.81/4.0

RESEARCH EXPERIENCE

Incoming Research Intern

Max Planck Institute for Intelligent Systems (Supervisor: Lancelot Da Costa)

- To join the Empirical Inference Department, led by Bernhard Schölkopf
- Research on Agent Foundation Models

starting 01/2026

Tübingen, Germany

Graduate Student Researcher

Georgia Institute of Technology (Supervisor: Prof. Yingyan (Celine) Lin)

09/2025 – current

Atlanta, United-States

- Enabling faster Diffusion LLMs inference via layer skipping
- Work done in the EIC Lab (Efficient and Intelligent Computing)

Graduate Student Researcher

Georgia Institute of Technology (Supervisor: Prof. Pan Li)

08/2025 – current

Atlanta, United-States

- Developing an adaptive retrieval selection method
- Formalizing the connection between retrieval approach selection and traditional reranking
- Work done in the GCoM Lab (Graph Computation and Machine Learning)

Research Intern

CEA-LIST

- Developed a GraphRAG pipeline combining knowledge graphs with LLMs [2]
- Achieved state-of-the-art performance with smaller models and reduced LLM query cost
- Study of the content-topology trade-off during iterative retrieval

01/2025 – 07/2025

Palaiseau, France

Graduate Student Researcher

Georgia Tech Europe (Supervisor: Prof. Cédric Pradalier)

08/2024 – 12/2024

Metz, France

- Applied contrastive learning to learn continuous representations for regression tasks [1]
- Presented the findings in a "student conference" at Georgia Tech.
- Participated in weekly seminars about standard research tools

Research Intern

Institut Polytechnique de Paris (Supervisor: Prof. Marius Preda)

06/2024 – 08/2024

Paris, France

- Geometric Deep Learning for 3D Human Segmentation in Cluttered Environments
- Built a synthetic dataset for human segmentation in cluttered 3D mesh environments

OTHER EXPERIENCE

Co-Founder	01/2024 – 06/2024
<i>Underate</i>	<i>Paris, France</i>
<ul style="list-style-type: none">Exhibited at VivaTech 2024 (Europe's #1 Startup Tech Event)Built an LLM-based text-generation tool for automated equity research reports	
Intern	06/2023 – 08/2023
<i>Thales Alenia Space</i>	<i>Toulouse, France</i>
<ul style="list-style-type: none">Built a data-sharing platform for a team of 50 engineersImproved access to system documentation	

SKILLS

Machine Learning: PyTorch, TensorFlow, Hugging Face, Transformers

Systems & Tools: Git, Slurm, Jupyter, LaTeX

Programming Languages: Python, C++, Java, SQL

Other: ROS2, MeshLab, Open3D

PAPERS

- [1] Valentin Six, Alexandre Chidiac, and Arkin Worlikar. *Evaluating Rank-N-Contrast: Continuous and Robust Representations for Regression*. 2024. arXiv: 2411.16298 [cs.LG]. URL: <https://arxiv.org/abs/2411.16298>.
- [2] Valentin Six, Evan Dufraisse, and Gaël de Chalendar. *DAGR: Decomposition Augmented Graph Retrieval with LLMs*. 2025. arXiv: 2506.13380 [cs.CL]. URL: <https://arxiv.org/abs/2506.13380>.