

Valentin Six

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EDUCATION

Georgia Institute of Technology

Atlanta, USA

Master's in Computer Science ; Machine Learning Specialization

2024 – 2025

Coursework: Machine Learning, Deep Learning, Algorithms, Robotics

Current GPA: 3.875/4.0

Télécom SudParis

Évry, France

Bachelor's and Master's in Engineering

2022 – 2025

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

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

Lycée Pierre de Fermat

Toulouse, France

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

2020 – 2022

Coursework: Mathematics, Physics, Chemistry, Engineering

GPA: 3.81/4.0

RESEARCH EXPERIENCE

Incoming Research Intern

starting 01/2026

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

Tübingen, Germany

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

Graduate Student Researcher

09/2025 – current

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

Atlanta, United-States

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

Graduate Student Researcher

08/2025 – current

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

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

01/2025 – 07/2025

CEA-LIST

Palaiseau, France

- 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

Graduate Student Researcher

08/2024 – 12/2024

Georgia Tech Europe (Supervisor: Prof. Cédric Pradalier)

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

06/2024 – 08/2024

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

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

Underate

Paris, France

- 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

Thales Alenia Space

Toulouse, France

- Built a data-sharing platform for a team of 50 engineers
- Improved 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 Dufraisie, and Gaël de Chalendar. *DAGR: Decomposition Augmented Graph Retrieval with LLMs*. 2025. arXiv: 2506.13380 [cs.CL]. URL: <https://arxiv.org/abs/2506.13380>.