

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
Current GPA: 3.875/4.0

Atlanta, USA
2024 – 2025

Institut Polytechnique de Paris (Télécom SudParis)

Bachelor's and Master's in Computer Science, Statistics
Coursework: Applied Statistics, Stochastic Processes, Bayesian Estimation, Machine Learning
GPA: 3.93/4.0 ; ranked 14th/216 students

Palaiseau, France
2022 – 2025

Lycée Pierre de Fermat

"Classe Préparatoire" program for national entry exams to French Grandes Écoles
Coursework: Mathematics, Physics, Chemistry, Engineering
GPA: 3.81/4.0

Toulouse, France
2020 – 2022

RESEARCH EXPERIENCE

Visiting Researcher

Max Planck Institute for Intelligent Systems (Supervisor: Bernhard Schölkopf)
• Working on LLM-guided active model discovery for POMDPs

01/2026 – current
Tübingen, Germany

Graduate Student Researcher

Georgia Institute of Technology (Supervisor: Prof. Pan Li)
• Working on Adaptive Graph-RAG
• Part-time research in the GCoM Lab (Graph Computation and Machine Learning)

08/2025 – current
Atlanta, United-States

Graduate Student Researcher

Georgia Institute of Technology (Supervisor: Prof. Yingyan (Celine) Lin)
• Enabling faster Diffusion LLMs inference via layer skipping
• Part-time research in the EIC Lab (Efficient and Intelligent Computing)

09/2025 – 12/2025
Atlanta, United-States

Research Intern

CEA-LIST (Supervisors: Gaël De Chalendar and Evan Dufraisie)
• 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)
• 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

08/2024 – 12/2024
Metz, France

Research Intern

Institut Polytechnique de Paris (Supervisor: Prof. Marius Preda)
• Geometric Deep Learning for 3D Human Segmentation in Cluttered Environments
• Built a synthetic dataset for human segmentation in cluttered 3D mesh environments

06/2024 – 08/2024
Paris, France

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 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>.