

Valentin Six

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EDUCATION

Georgia Institute of Technology

Master's in Computer Science

Machine Learning, Robotics, NLP

Atlanta, USA

2024 – 2025

Télécom SudParis

Master's in Engineering ; GPA: 3.74/4 ; Ranked 14th/216 students

Évry, France

2022 – 2024

Lycée Pierre de Fermat

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

Mathematics, Physics, Engineering

Toulouse, France

2020 – 2022

RESEARCH EXPERIENCE

Research Intern

CEA (Supervisors: Gaël de Chalendar, Evan Dufraisie)

01/2025 – 07/2025

Palaiseau, France

- Developed, a GraphRAG pipeline combining knowledge graphs with LLMs
- Designed a novel retrieval method using compositional reasoning to improve factual accuracy and efficiency
- Achieved state-of-the-art performance with smaller models and reduced LLM query cost

Student Researcher

Georgia Tech Europe (Supervisor: Cédric Pradalier)

08/2024 – 12/2024

Metz, France

- Applied contrastive learning to learn continuous representations for regression tasks
- Participated in weekly seminars about standard research tools (bibliography, writing papers, presenting results...)

Research Intern

Institut Polytechnique de Paris (Supervisors: Marius Preda, Germain Bregeon)

06/2024 – 08/2024

Paris, France

- Created a synthetic SMPL-based dataset for human segmentation in complex 3D scenes
- Implemented and trained a CNN architecture adapted for mesh objects

PUBLICATIONS

- [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. *Compositional Reasoning for Graph Retrieval with Large Language Models*. 2025. arXiv: 2506.13380 [cs.CL]. URL: <https://arxiv.org/abs/2506.13380>.

OTHER EXPERIENCE

Co-Founder

Underate

01/2024 – 06/2024

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

Thales Alenia Space

06/2023 – 08/2023

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: Slurm, Git, Jupyter, LaTeX

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