



ACTIVITY REPORT

2024
2025



The academic year 2024-2025 was marked by an **important milestone for SCAI: the launch, on April 1, 2025, of the PostGenAI@Paris consortium**, backed by €35 million in funding over five years under the France 2030 plan. Led by Sorbonne University through SCAI, this project brings together more than 17 academic partners and 60 industrial partners, structured around 21 Collaborative Acceleration Programs spanning three axes: **frontier AI technologies, sustainable health, and a resilient, educated society**.

With this achievement, **SCAI** is scaling up - without ever losing sight of its DNA: rigorous research, ambitious training from doctoral studies to continuing education, and a strong engineering focus at the service of society. Our computing infrastructure, used by 425 active users, our Education Hub, and the more than 110 events organized this year all bear witness to this.

I also think of meaningful projects such as **Digital Delacroix**, which unites AI and cultural heritage, and the **development of SCAI Abu Dhabi**, extending our international reach.

A truly great year, then, for SCAI and its whole community. I wish you an excellent read of this activity report.

Gérard Biau, Director of SCAI



As AI continues to transform society, the main question is no longer whether it will shape our future, but how we choose to shape its development. **Sorbonne University, with the Sorbonne Center for Artificial Intelligence (SCAI), aims at promoting a vision of sustainable, human-centred AI**, consistent with our humanist and universalist values.

2025 marked a major milestone for **SCAI**, notably through its **contribution to the AI Action Summit** held in Paris in February. Throughout this year, **SCAI** confirmed its role as a recognized centre of excellence through conferences and public events dedicated to address generative AI, disinformation, AI safety and regulation. These initiatives reveal our strong belief that global challenges can only be solved with interdisciplinary research and a deeper cooperation between the public and private sectors.

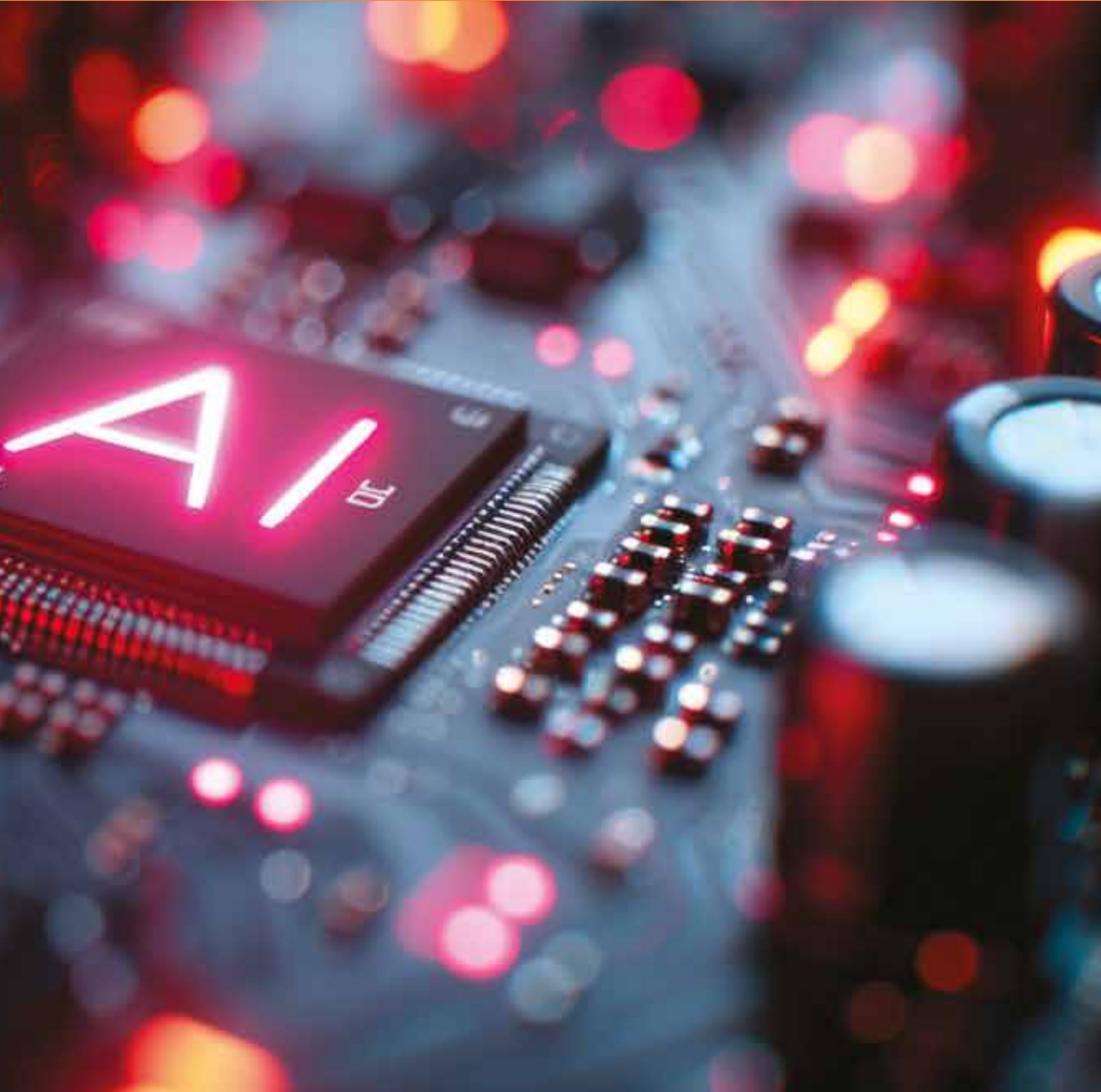
For this reason, in 2025, Sorbonne University alongside sixteen academic institutions and more than sixty industrial partners launched the **PostGenAI@Paris**. This unique consortium intends to strengthen France's research ecosystem while promoting AI that is scientifically ambitious, ethically grounded and socially responsible. Our collective responsibility, as an intensive research university, is to offer and promote an alternative way to the benefit of humanity.

Innovation is at the heart of Sorbonne University's strategic plan. 2025 will remain the year we celebrated the first participation of our institution at **Viva Tech**. This new opportunity enabled us to showcase our innovation ecosystem, the future City of Innovation but also to promote research projects at the crossroad of science, AI and culture. **The Delacroix Numérique project** illustrates perfectly the transformative potential of interdisciplinary research intertwined with AI potential.

These achievements reflect the collective commitment and enthusiasm of researchers, engineers and administrative teams of SCAI. Under the visionary leadership of Gérard Biau, Director, and Xavier Fresquet, Deputy Director, **SCAI successfully managed to make Sorbonne University a renowned leading academic and research institution in the development of sustainable AI models**.

Together, these accomplishments have laid the foundations for future initiatives with our international and economic partners. It is also a new step forward to **our ambition to weigh up on the European and international stage in the promotion of another model for AI: sustainable, inclusive and driven to solve global challenges for the benefit of all**.

Nathalie DRACH-TEMAM, President of Sorbonne University



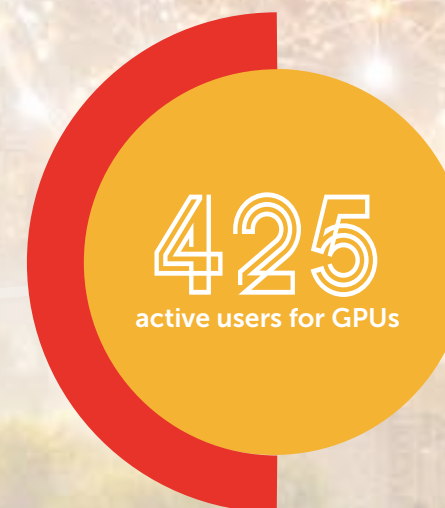
Summary



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2024-2025

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A national
consortium
for artificial
intelligence



PostGenAI@Paris is a major interdisciplinary consortium officially launched on April 1, 2025, in Paris. Its goal is to establish France, and Paris in particular, as a leading international hub for post-generative artificial intelligence by placing research, training, innovation, and societal challenges at the core of its development.

The project is led by **Sorbonne University** through its AI center (**Sorbonne Cluster for Artificial Intelligence - SCAI**) and brings together numerous academic and industrial partners. It is supported by **€35 million in funding** over five years as part of the **France 2030** plan by the French National Research Agency (ANR).



Institutional Context

Origins and Selection

PostGenAI@Paris was selected under the "IA-Cluster" call for interest launched by the ANR in 2024, positioning the project among the most ambitious initiatives in the French AI landscape.

This project builds upon the expertise established by the **Sorbonne Cluster for Artificial Intelligence (SCAI)**, which was created by the Sorbonne University Alliance in 2019 to federate expertise in artificial intelligence.

Scientific and Societal Objectives

Towards Post-Generative AI
The project distinguishes itself through its ambition to go beyond standard generative AI to explore systems capable of more autonomous, contextual, and adaptive interactions. The challenge is to develop AI technologies that do not merely produce content, but rather understand, anticipate, and cooperate with complex environments.

Societal Ambition
PostGenAI@Paris aims to produce AI that is ethical, inclusive, sovereign, and integrated into societal goals—focusing not only on technological innovation but also remaining attentive to its effects on employment, governance, law, health, education, and social cohesion.

Industrial Partners

The consortium benefits from the support of over **60 industrial partners**, covering various sectors such as aeronautics, energy, healthcare, finance, robotics, and digital technologies. This synergy is essential to ensure technology transfer to the industry.



Institutional and Industrial Partnerships

Academic Partners
The consortium brings together more than 17 academic and institutional entities.



21 Collaborative Acceleration Programs

Collaborative Acceleration Programs (CAPs)

At the heart of the scientific strategy are 21 Collaborative Acceleration Programs (CAPs), designed to closely link research, innovation, and training:

Each CAP brings together academic teams, doctoral students, industrial players, and NGOs to work on a targeted theme.

CAPs promote open innovation, the sharing of data and resources, and the integration of students into applied research projects.

Each CAPs is composed of both junior and senior researchers to ensure a balance between scientific excellence and practical relevance.

AXIS 1

- CAP 1.1 Large Generative Vision-Language Models
- CAP 1.2 Multilingual PostGenerative Language Models
- CAP 1.3 AI-Augmented Multiscale Modelling for Energy Storage
- CAP 1.4 Deep Learning for Science: Modelling Fluid Dynamics in Engineering and Climate Physics
- CAP 1.5 Mathematical Foundations for AI
- CAP 1.6 AI for Industry and Risk Management
- CAP 1.7 Trustworthy Interactive Augmented Autonomous Driving

AXIS 2

- CAP 2.1 Robust Deep Learning in Surgical Robotics
- CAP 2.2 Robot Learning for Socio-Physical Interaction: Toward Generative Robotics
- CAP 2.3 Digital 'I' Twin
- CAP 2.4 AI, Images and Models for Medicine
- CAP 2.5 Determinants of Molecular Interaction in Biology and Medicine: from AI to Synthesis and Back
- CAP 2.6 Improving Healthcare with Generative Models: Creating Cohorts Based on Clinical Reasoning
- CAP 2.7 Deep Learning-based Genome Annotation of Biodiversity: Artificial Intelligence to Unveil Genomic Mysteries and Accelerate Biodiversity Studies

AXIS 3

- CAP 3.1 AI for Music and Voice Media Generation
- CAP 3.2 AI Normative and Distributive Effects
- CAP 3.3 Integrated Multimodal AI to Adapt Learning Content to Multiple Users Needs
- CAP 3.4 AI for Justice
- CAP 3.5 AI for Augmented Deliberation
- CAP 3.6 Maritime Risks AI-Geoint
- CAP 3.7 Artificial Intelligence and Digital Humanities

Scientific Axes Structuring the Project

PostGenAI@Paris is organized around three interdependent strategic axes:

Generative AI in frontier technologies

This axis federates work on cutting-edge technologies such as deep learning, complex modeling, advanced robotics, and AI for the simulation of physical or biological phenomena. It includes projects applied, for example, to fluid modeling, engineering, or autonomous systems.

Towards a sustainable & healthy future

Another central axis concerns the integration of AI into healthcare, in collaboration with hospital stakeholders such as the AP-HP. This includes work on robotic surgery, AI-assisted medical analysis, and smarter diagnostic systems.

Resilient Society and Education

The third axis explores the impact of AI on social, legal, and educational fields—for example: predictive justice, geo-intelligence, augmented learning, data governance, AI-Normative & Distributive Effects, etc.

Conclusion

PostGenAI@Paris constitutes a structural project for Artificial Intelligence research in France, relying on an ambitious scientific vision, open governance, and multifaceted partnerships.

Thanks to significant funding and an integrated strategy spanning research, innovation, and training, it represents a key step toward a more ethical, sovereign, and socially responsible AI.



Digital Delacroix

Artificial Intelligence in the service of artistic heritage

Launched in September 2025 with the support of the Schmidt Family Foundation and Sorbonne Université, Digital Delacroix brings together art history, computer vision, 3D scientific visualization, and textual analysis.

Its goal: to better understand the creative process of Eugène Delacroix and his studio.

Led by Barthélémy Jobert, the project unites SCAI, the Centre André Chastel, OBTC, the LAMS, and the Assemblée nationale.

Four Complementary Pillars

- **3D Reconstruction:** Digitization of the Assemblée nationale's library, whose ceiling Delacroix painted between 1838 and 1847. Several photogrammetric models, produced at varying resolutions and at different stages of the 2024 restoration, provide a usable digital twin for segmentation, annotation, and visualization.

- **Computer Vision:** Identifying the different hands, Delacroix's and his assistants', within the ceiling paintings. A gigapixel image-capture campaign is underway at the Assemblée nationale and in several French museums and churches to train the model, which is currently in its learning phase. The integration of physico-chemical data from the LAMS is also under study.
- **Heritage Restitution:** Digital reconstruction of the décor of the Salon de la Paix at the Paris City Hall, decorated by Delacroix and destroyed during the Commune in 1871, drawing on sketches, drawings, and archival documents now being assembled.
- **Cross Analysis:** Joint study of Delacroix's writings and works, notably through the XML-TEI edition of his correspondence, conducted in collaboration with the Centre André Chastel.

Collaboration and Team

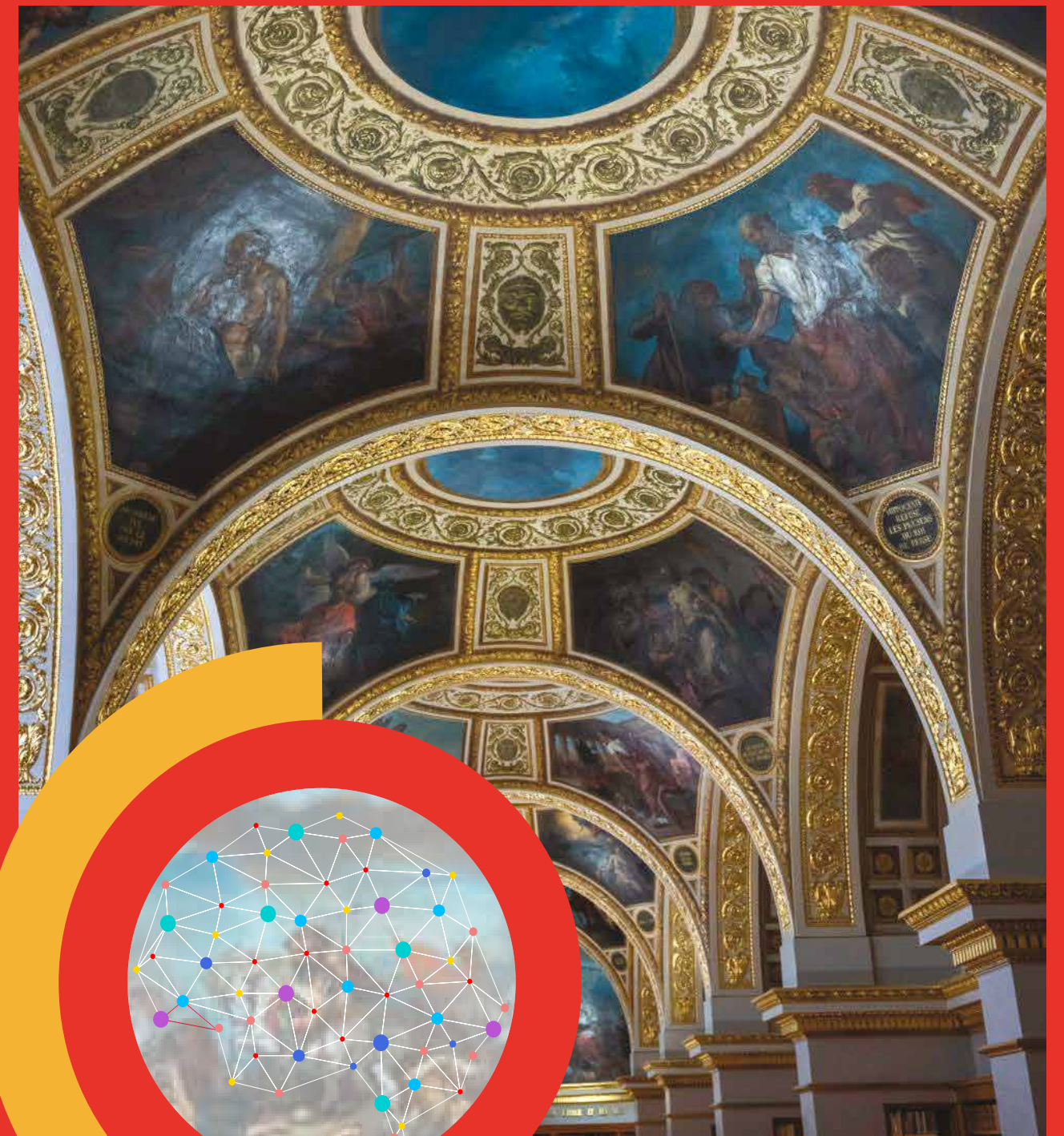
SCAI hosts the computer vision and scientific visualization components. A data scientist engineer has been recruited for two and a half years, and several internships are being filled in both data science and 3D visualization.

Art-historical research is led by the Centre André Chastel in close collaboration with SCAI. A monthly seminar brings the whole team together - AI researchers and art historians alike - under Barthélémy Jobert's direction, fostering a shared scientific culture.

Outreach and Public

A heritage mediator has been hired through pre-maturation funding from Sorbonne Université. Her mission: to design a digital visitor experience for the Assemblée nationale's library, in close partnership with the institution.

This work will guide real-time visualization developments, envisaged in Unreal Engine 5 and/or Unity.



Project website: <https://delacroix.sorbonne-universite.fr/>

Computing power for the community

SCAI provides a GPU infrastructure dedicated to accelerating intensive computing for a diverse scientific community.

In 2025, the platform was used by 425 active users, including researchers and students from Sorbonne University, Sorbonne University Abu Dhabi, and partner institutions such as the Vision Institute and Inserm. The user base consisted primarily of doctoral candidates (approximately 75%), complemented by postdoctoral researchers, research engineers, and faculty members.

During this period, 40,484 computations were submitted to the infrastructure, illustrating a sustained and foundational usage for research activities.

GPU Architecture

The cluster features a heterogeneous pool of GPUs, covering a wide spectrum of needs from prototyping to production:

- **Recent high-performance GPUs :**
A100 (x8), A6000 (x9), A5000 (x12), H200 (x2)
- **Intermediate GPUs:**
RTX 3080 (x2), RTX 2080 (x12)
- **Previous-generation GPUs :**
Titan V (x4), Titan RTX (x16), Titan X (x12), Titan Xp (x24)

This diversity matches resources to specific needs, optimizing the performance-to-cost ratio. The most recent GPUs are primarily used for heavy deep-learning training and large-scale data processing, while previous generations remain relevant for development, testing, and experimentation.

Scientific Use Cases

GPU resources support a wide range of projects in artificial intelligence, bioinformatics, and biomedical imaging:

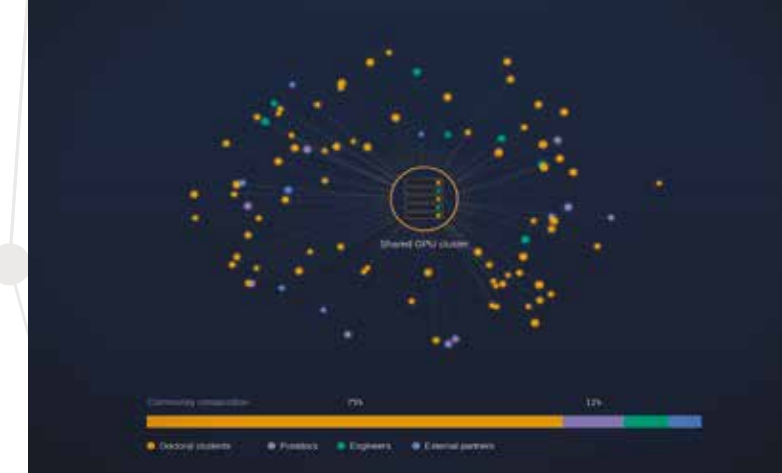
- **Deep learning and NLP:** prototyping chatbots trained on business-specific data; model training and inference.
- **Genomics and bioinformatics:** Nanopore sequencing (basecalling with Dorado); diagnostic analysis of genetic diseases.
- **Oncology and medical imaging:** iterative analysis of cancer cell and tumor images; 3D image reconstruction and analysis.
- **Computer vision:** segmentation and creation of medical image databases; training and evaluation of CNN models; comparison with reference databases (NIH).
- **Explainable AI (XAI):** pipelines for quantifying complex biological processes.
- **Synthetic data:** datasets with occlusions to improve model robustness.

Access and Usage

Access to GPU resources is shared via the cluster's resource manager (Slurm), allowing controlled and equitable allocation. Users submit their work as jobs, specifying their GPU requirements based on computational constraints. This organization promotes both the reproducibility of experiments and the optimization of resource utilization.

Added Value

The integration of GPUs within the cluster serves as a strategic lever for research. It significantly reduces computation times, increases the complexity of studied models, and supports iterative workflows in AI and biomedical data processing. The diversity of the hardware and its applications demonstrates the central role of this infrastructure within the Sorbonne University scientific ecosystem



425
active users

SCAI Education Hub

Sorbonne Cluster for Artificial Intelligence

The SCAI Education Hub is a strategic driver of educational transformation within Sorbonne University. Its missions are to create synergies between research, teaching, and innovation, and to support the entire university community (students, faculty, and administrative staff) in understanding, adopting, and critically using artificial intelligence.

Research and Innovation:
Relying on rigorous methodologies—such as action research and design-based research—the hub explores the effects of AI on teaching and learning practices. Its work focuses specifically on the individualization of learning paths, the impact of generative AI on student engagement, and the ethical issues related to pedagogical automation.
This research directly informs the design of innovative teaching tools.

Three Complementary Pillars

The hub structures its activities around three inseparable axes

Education and Training

The hub designs and deploys a progressive pedagogical offer, ranging from basic awareness to advanced applications. This is aimed at students of all levels (Bachelor's, Master's, PhD) as well as professionals in continuing education. The approach is inclusive and tailored to a diversity of profiles: from daily AI users to the designers and developers of these technologies.

Environmental Engagement

The hub develops partnerships with French and international universities, as well as public institutions, associations, and schools. Through popularization and scientific mediation, it anchors its activities in the social and economic realities of the region on a local, national, and international scale.

Open and Collaborative Governance

The Education Hub operates through co-construction: cross-functional working groups, collaborations with Sorbonne University's laboratories and digital departments, and participation in European calls for projects. It relies on a team that combines scientific expertise with pedagogical engineering, mobilizing an expanded network of researchers, teachers, doctoral students, and external partners.

Influence and Outreach

The SCAI Educational Hub is committed to a logic of openness:

Local

Contributing to the attractiveness of Sorbonne University.

National

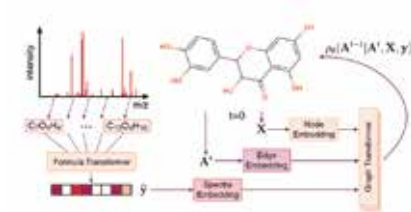
Acting as a partner in national AI training strategies.

International

Offering bilingual programs, partnerships with foreign institutions, and cooperation/internationalization initiatives.

Data Hub Training

ANNOTIX
Banyuls Oceanological Observatory
Since July 2025



Cowspiracy — IRD / IEES
Since May 2024



Digital Delacroix — Centre André Chastel / National Assembly / Obti
Since September 2025



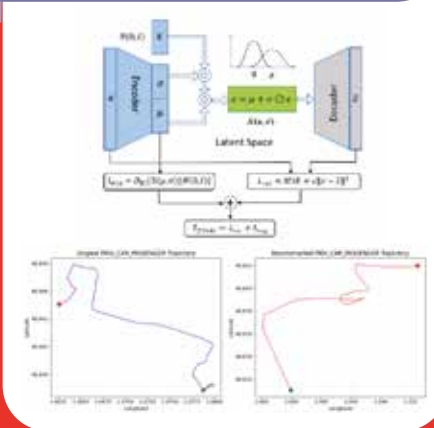
LibreChat SU — Institut Pasteur



FORECAST — AP-HP
Since October 2025



Netmob25 / trajectory generation — LIP6
June – October 2025



Chatbot ISIRxBNF — ISIR



Sorbot — SUMMIT



Internships

ANSES
Quantification Prediction
of Food Contaminants
March – August 2025

MNHN
Microcin Production, Virulence,
and Antibiotic Resistance
May – November 2025

Sorbonne University
AI for Regulatory Compliance
Project
April – October 2025

CNRS
Automated Cell Recognition
in Blood Smears
April – October 2025

OT4D
Algorithm design for bone marrow
cytology images
April – October 2025

Major events

FRANCE



Launch of PostGenAI@Paris

On April 1, 2025, Sorbonne University and its partners officially launched PostGenAI@Paris. Located in the heart of Paris, this interdisciplinary and cross-sectoral consortium aims to foster the emergence of an ethical, inclusive, and sovereign AI, deeply rooted in the major challenges of our time.



SCAI Warm-Up to VivaTech

As part of VivaTech, SCAI hosted an exclusive evening event on June 10th 2025 at the Musée de l'Homme, bringing together a select group of academic leaders, industry decision-makers, and institutional partners to explore one key theme: the future of post-generative artificial intelligence.



CVPR@Paris

CVPR@Paris is a 1-day event that takes place June 6th 2025 in Paris. This event provides a local meeting prior to the CVPR conference. It aims at encouraging sustainability and inclusivity in Deep Learning and Computer vision research. All students and researchers are welcome to attend.

Authors of accepted papers at CVPR, CVPR workshops, and recent international conference (ICLR 2025) are given the opportunity to present their work, through an oral presentation and/or a poster session.



Neurips@Paris

NeurIPS@Paris is a one-day event that takes place at Sorbonne Université on the 4th of December 2024. This event provides a local alternative to the NeurIPS conference. It aims to address some sustainability and inclusivity concerns in machine learning research.



Innovation Days 4 AI

The Innovation Days 4 AI, led by SCAI, is an ambitious initiative to develop AI solutions that benefit society while preserving natural resources. Combining elements of a hackathon and an educational program, it offers a unique experience in multidisciplinary and entrepreneurial project management.



International collaborations

- > **How can emotionally intelligent AI transform society?**
Spring school, AI Grid
- > **Cross-perspectives of NLP, AI and Digital Humanities: data, applications and ethical challenge**
Summer School, Université Internationale de Rabat
- > **AI in Medicine: Optimised Trials with Machine Learning**
DFH/UFA workshop, Heidelberg University, Alliance 4EU+
- > **AI and Sustainable Food**
Summer School, Université Laval
- > **Mental Health and AI**
Workshop, Université nationale autonome du Mexique



Organization

Director **G rard Biau**

Executive Director **Xavier Fresquet**

Scientific deputy directors **Nicolas Baskiotis**
Paola Cinnella
Andrea Pinna
Mathieu Salanne
Laure Soulier

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Julie PERRIN
Communication Officer
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Vivien CONTI
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SCAI ABU DHABI

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