université PARIS-SACLAY

INSTITUTE DATAIA
Data Science, Intelligence & Society

The Institute of Artificial Intelligence at Paris-Saclay University

4 Juin 2025 – Demian WASSERMANN –
Deputy Director Research

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1- **DATAIA Institute**

DATAIA Institute

Aggregate and structurate the multidisciplinary expertise and amplify the collective power of **Paris-Saclay cluster** partners, involved in **research**, **training** and **innovation in AI**, **data science** and their **societal impacts**.

17 Founding Members

université PARIS-SACLAY
Inria
cnrs
Inserm
La science pour la santé
From science to health
INRAE
la science pour la vie, l'humain, la terre
CentraleSupélec
école normale supérieure paris-saclay
cea
UVSQ
université PARIS-SACLAY
AgroParisTech
ONERA
THE FRENCH AEROSPACE LAB
FMJH
université evry val d'essonne
université PARIS-SACLAY
IHES
GUSTAVE ROUSSY
CANCER CAMPUS
GRAND PARIS
CentraleSupélec
EXED
INSTITUT d'OPTIQUE
GRADUATE SCHOOL
ParisTech

6 Associate Members

SystemX
INSTITUTE OF RESEARCH AND TECHNOLOGY
ensiie
PARIS-ÉVRY
Institut Mines-Télécom
Business School
ifp Energies nouvelles
ESSEC
BUSINESS SCHOOL
NUMÉRIQUE
LNE
CERTIFICATION

+46 Industrial Partners

- 19 major companies
- 27 SMEs

Key Figures

université PARIS-SACLAY

Ranked 12th worldwide, 1st in continental Europe

+6,500 publications between 2018 and 2022

47 laboratories

+800 permanents researchers

450 PhD students
(incl. 170 internationals)

10 AI Chairs out of the 40 AI Chairs selected nationally by the ANR

25 research projects (multi-partner) launched since 2018

2022

SACLAI - SCHOOL

AI training program

2023

DeMythif.AI

COFUND (PhD program) on uncertainty and AI (European funding)

AI4IDF

CfP Doctoral research in the Ile-de-France region

2024

DATAIA-Cluster

2 - **Our Calls**

Our Calls

ANNUAL CALLS

The DATAIA Institute supports research in Data Science in the broadest sense (including computer science, mathematics, physical sciences, life sciences and the humanities and social sciences), through various annual calls for proposals.

- **Fellowships** (doctoral thesis, post-doctoral student)
- **Master 2 internships** (or equivalent), lasting 4-6 months
- **COFUND DeMythif.AI** (thesis program - European funding)
- **DIM AI4IDF** (doctoral research - regional funding)

PERMANENT CALLS

The DATAIA Institute also stimulates research in its chosen fields, through calls open all the year.

- **Incoming and outgoing mobility** (national and international)
- **Visiting professors** in affiliated laboratories
- **Support** for workshops & conférences
- Organization of **Data Challenges**

3 - **Scientific Animation**

Scientific Animation (1/2)

Thematic Workshops
Organized and Supported by DATAIA

- Ferments du Futur
- Anomaly Detection
- Life Sciences & AI
- Mathematical foundations of AI
- AI & Environment

Support for Events of Paris-Saclay AI Ecosystem

- 40 funded workshops
- 3 international data challenges & 11 academic data challenges
- 7 junior conferences
- 7 summer schools

Scientific Animation (2/2)

Organizing Data Challenges

Advancing research with an **open source machine learning training tool**

Datacamp Paris-Saclay University / Institut Polytechnique de Paris

Organized every year, it brings together around **120 students from the Master 2 Computer Science program**

DATAIA SEMINARS

As part of our scientific activities, the Institute **organizes seminars throughout the year to discuss AI.**

Aditya Mahajan
Univ. McGill (Canada)
& Visiting Professor

Johannes Brandstetter
Microsoft Research

Juliana Freire
Univ. New York

Frédéric Lemoine
Institut Pasteur

Elisabeth Bik
Univ. Stanford

Jonathan Niles Weed
Univ. New York

Yuejie Chi
Univ. Pittsburgh

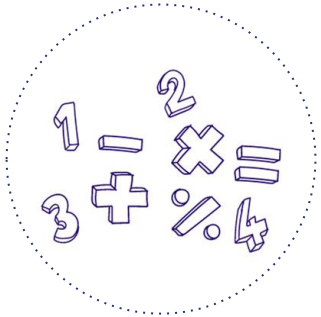
Ulugbek Kamilov
Univ. Washington

Enzo Ferrante
Conseil Nat. Rech.
CONICET (Argentina)

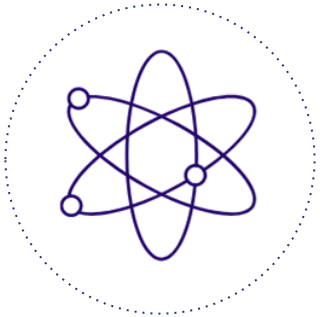
Antoine Chambaz
Univ. Paris Cité

4 - **DATAIA Cluster**

DATAIA-Cluster



Mathematics & IA



Physics & IA

AI for **Health**

CROSS-FUNCTIONAL AREAS

- Data protection and ethics in AI
- Digital sobriety and reliability
- Data and resource management

3 SYNERGY CHAIRS

- AI for large-scale teaching and learning
- Pre-trained models for data frugality
- GenAI - Foundation models: From theory to applications

DATAIA-Cluster : Main Research Actions and Calls

3 SYNERGY (JOINT) CHAIRS

Pre-assigned to Teams and Topics

1. Pre-trained models for data frugality
2. GenAI - Foundation models: From theory to applications
3. ATLAS – AI for Teaching and Learning (AI) at Scale

MODULAR (JOINT) CHAIRS

Attributed through regular calls

Aligned with the Cluster's axes

- Mathematics & IA
- Physics & IA
- AI for Health

Funding per project: ~500k€

Deadline Mid-October 2025

RESEARCH PROJECTS & WORKGOUPS

Dynamic, small, exploratory

Priority to topics but for general AI

- Mathematics & IA
- Physics & IA
- AI for Health

Total available funding: 1M€

Funding per project: ~100k€

Funding per workgroup: 10k€

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5 - **SaclAI-School**

SACLAI - SCHOOL

- **Managed by** DATAIA
  Sarah Cohen-Boulakia

- **A Unique Ecosystem**
  3 universities, 3 “Grandes Écoles”
  A continuing education center: CentraleSupélec Exed
  A foundation

- **Winner of the France 2030 Call For Projects CMA IA**
  11,4 M€ - 2022-2027

FRANCE 2030

SACLAI - SCHOOL

Objectives

1

Massify Training in AI and Data Science
to meet **societal challenges**, while maintaining the **excellence** of graduates

All levels (Bachelor's, Master's, PhD, Executive Education)

Several disciplines: core-IA, multi-disciplinary AI, acculturation

2

Helping Students
from high school through to job market

Promoting gender diversity and parity

3

Develop Tools (e.g. platforms) and content (MOOC, SPOC) at the interface between higher education, universities and grandes écoles, **to foster pedagogical innovation**

6 - **PAI** (Industrial Affiliate Program)

PAI
Programme d'Affiliation Industrielle

Research

Joint action to support research

Collective: sharing experiences with academic and commercial experts

Bilateral: facilitating and increasing the development of qualified projects

Recruitment

Easy access to data for trainees and future scientists

Training

Guide and co-construction

In-company courses for faster skills development

Tutorial to raise awareness of AI issues

Events

Manages

Seminars, workshops, challenges

Call for Proposals

Support

to create complementary teams

Scientific Achievements as part of Collaborations

Visiting Professors

- **Aapo Hyvärinen** - University of Helsinki

  Development of the concept of common component analysis (common independent component analysis and multi-view component analysis)
  MOA signed with FCAI (Finland Center for Artificial Intelligence)

- **Ismaël Ben Ayed** - ETS Montréal

  Research work on few shot learning, using neural foundation models.
  Joint publication of articles at NeurIPS and CPVR
  Strengthened collaboration on new topics, such as optimization algorithms for adversarial attacks on neural networks used in segmentation.

Industrial Collaborations

sanofi

- **2 PhDs**: Survival causal inference (Inria Premedical), longitudinal data in causality (UEVE, IBISC)
- **4 Postdocs**: ML Medical & Omics data (UEVE, IBISC), Multiscale models prediction cardiac actions (AgroParisTech, MIA), NLP in clinical tests (CEA, Biomaps), Forecasting pharmacokinetics (UPSaclay, LMO)

SERVIER
moved by you

- **1 internship**: LLM for biological sequence characterization (INRAE MaIAGE)
- **1 Data Challenge project**: Cell painting protocol data

GE Healthcare

- **1 PhD**: Fundational models for 3D medical imaging (CS MICS – ILLS)
- **1 Internship**: Quality assessment in medical imaging (UEVE IBISC)

Quantmetry

- **1 PhD**: Robustness and Conformal Predictions in ML (UEVE LaAMME)
- **1 Data Challenge project**: Climatology data and sustainability

GROUPE LANG & ASSOCIÉS
EXPERTISE AUTOMOBILE

- **1 seminar**: AI challenges in Insurance Expertise
- **1 intra- training**: Regulation data in AI
- **2 inter-trainings**: Generative AI, AI and environment

7- **Ecosystem**

DATAIA Institute Ecosystem

8- **Contact Us!**

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INSTITUTE DATAIA
Data Science, Intelligence & Society

Thank you for your attention!

www.dataia.eu
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