S3 School

Sustainable Scientific Software School

Welcome address

14-01-2026

OSCARS

Open Science Clusters' Action for Research & Society

eosc | EVERSE

Funded by the European Union

Fundamental research in Annecy

Created in 1976 and affiliated with CNRS Nuclear & Particles (IN2P3) and the University of Savoie Mont Blanc (USMB), LAPP brings together nearly 160 researchers, teacher-researchers, engineers, technicians, administrators, students, and foreign visitors.

Research topics: particle and astroparticle physics

Combining experimental research on the two infinities, from the largest structures in the observable universe to the most fundamental particles.

Frontier **technologies** in different fields: mechanics, electronics, computer science.

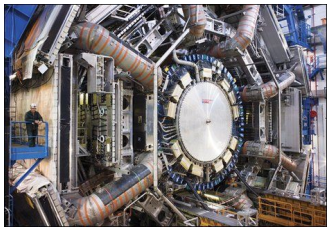
- A theory unit in its premises (**LAPTh**)

- A CNRS-USMB digital platform (**MUST**)

- An outreach platform (**EUTOPIA**)

A multi-probe approach to answer fundamental questions

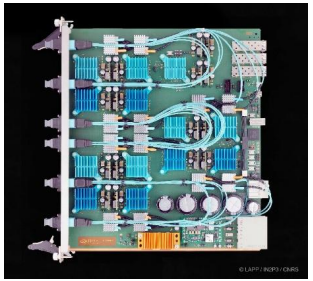
LAPP contributes to the design, construction and use of cutting-edge experimental instruments for science (particle physics, cosmology, astrophysics) and to the analysis of their data.

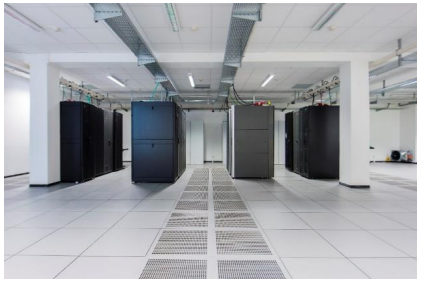


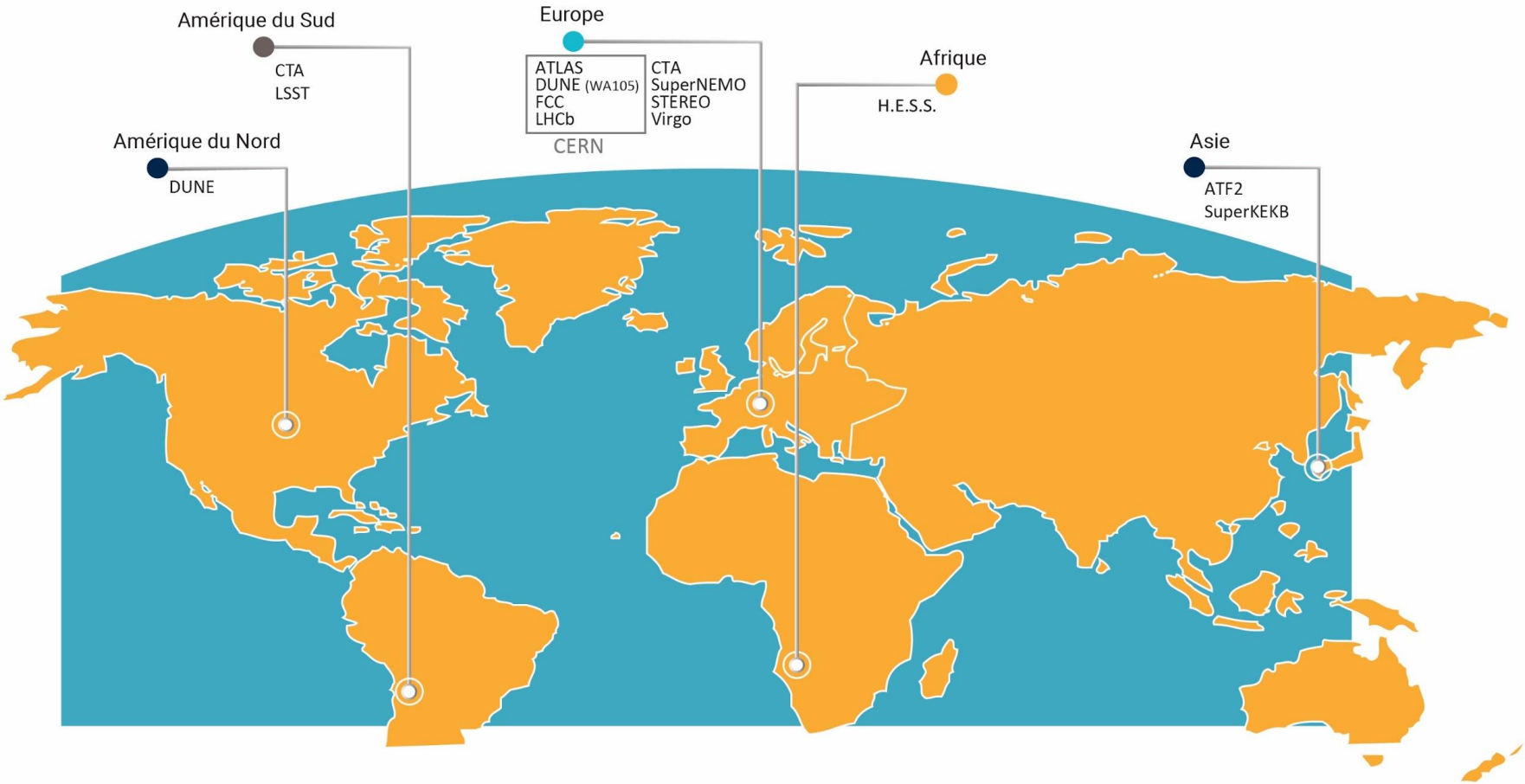


All our research activities have involved participations in the R&D, construction, commissioning and operation phases.

Internationally recognised expertise in ultra-fast electronics, mechanics, mechatronics, embedded computing and Big Data.






Amérique du Sud
CTA
LSST
Europe
ATLAS
DUNE (WA105)
FCC
LHCb
CTA
SuperNEMO
STEREO
Virgo
CERN
Afrique
H.E.S.S.
Amérique du Nord
DUNE
Asie
ATF2
SuperKEKB

ATLAS

- At LHC, CERN
- Higgs boson discovery, 2012
- Search for new physics
- Precision measurements

One of the major French contributions in ATLAS

LHCb

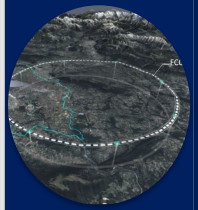
- At LHC, CERN
- Matter-antimatter asymmetry
- Search for new physics
- Precision measurements

Outstanding results and Important involvement in the upgrading for the HL-LHC

Neutrinos

- STEREO, SuperNEMO and DUNE
- Neutrino properties: oscillation, 4th family, matter-antimatter asymmetry

Long-term involvement In ν-physics



FCC

- Accelerator simulations, vibrations, HTS magnets
- Noble gas cal., physics performance; pixel detector

R&D for next HEP challenges

CTAO

- Telescopes in La Palma and Chile
- Search for dark-matter
- Study of high energy cosmic rays sources

A key role in CTA and one of the major French contributions

Virgo & ET

- Interferometer in Italy
- GW discovery in 2015
- ET PP
- General relativity, gravitational astronomy

30 years involvement. Pioneer and a reference leading role in Virgo.

LSST

- Chile.
- Dark matter and dark energy studies

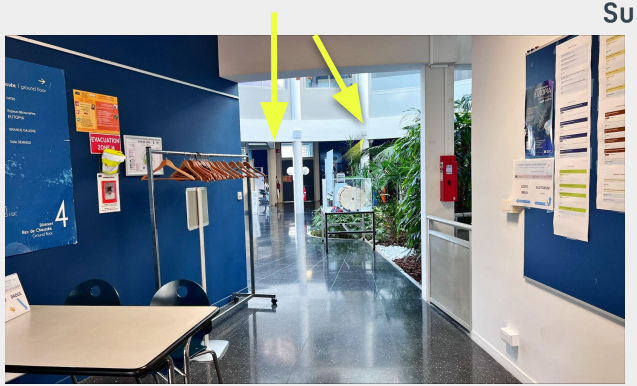
Opening up Cosmology and Multi-λ astrop.

A history of software development schools at LAPP

- ASTERICS schools – 2017, 2018, 2019
    - Advanced Software Programming for Astrophysics and Astroparticle Physics
    - https://github.com/Asterics2020-Obelics/School2019
- ESCAPE schools – 2021, 2022
    - Data Science for Astronomy, Astroparticle and Particle Physics
    - https://escape2020.github.io/school2021/
- Gray Scott Battle – 2023, 2024, 2025
    - HPC programming (in French in 2023 and 2024 – international in 2025)
    - https://indico.in2p3.fr/event/29755/

LAPP Areas

S3 School
Sustainable Scientific Software School



Eutopia

Used for luggages and presentations

Grande Galerie

Used for lunch and coffee breaks.

Signage throughout the LAPP

→ You will find panels everywhere to help you locate the rooms.

Accommodation & Centre Jean XXIII

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Sustainable Scientific Software School

- Participants will be hosted in twin rooms with breakfast included.
- To make things easier, room keys will be distributed during the 4:00 PM break at “La grande galerie”
- The centre Jean XXIII is located at walking distance (10 min) from LAPP (see itinerary on Google Maps , scan the QR code).

https://www.centrejean23.com/

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Transportation in Annecy

- City Bus
  - https://www.sibra.fr/
  - line 1 to go from LAPP to city center
  - all lines and schedules in google map or Sibra app
  - buy tickets : the Sibra app / SMS / physical selling points

- Vélonecy
  - https://www.velonecy.com/
  - e-bikes
  - free for 30 minutes

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Social Dinner

Friday, January 16, 2026

Meeting Time : 9:00 PM at Le Freti

12 Rue Sainte-Claire, 74000 Annecy. Here is the itinerary: Google Maps

A bit of history: Le Freti started in 1973 with the opening of a creamery by Michel Collomb, the founder of the "Descente des Alpages," in the heart of Annecy's historic district.

CERN Visit

Saturday, January 17, 2026

Meeting time : 8:50 AM at the LAPP parking lot.

Please arrive no later than 9:00 AM for a 9:00 AM departure.

Transportation: Coach with 49 seats.

Lunch: We will bring picnics (snacks) from LAPP before departure.

Return: Departure from CERN at 1:00 PM, arriving in Annecy around 2:00 PM.

More info about CERN: CERN Science Gateway

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Communication : WIFI

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- Each person **receives** a Wi-Fi code to connect to **LAPP-Guest**.
- You can find your code on the back of your badge.
- Please do not lose your coupon, it is confidential and linked to your name for use.

- You may also use eduroam.

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Communication : Contact

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Mailing list

s3-school-2026@services.cnrs.fr :Used to send you **announcements and updates**.

Contact emails

Use the emails to **reach specific organizers** for questions or coordination:

azza.gamgami@lapp.in2p3.fr

thomas.vuillaume@lapp.in2p3.fr

Slack channel

https://join.slack.com/t/s3-2026/shared_invite/zt-3me97y2on-8Gzem77pIKpzrNN8du~bJQ

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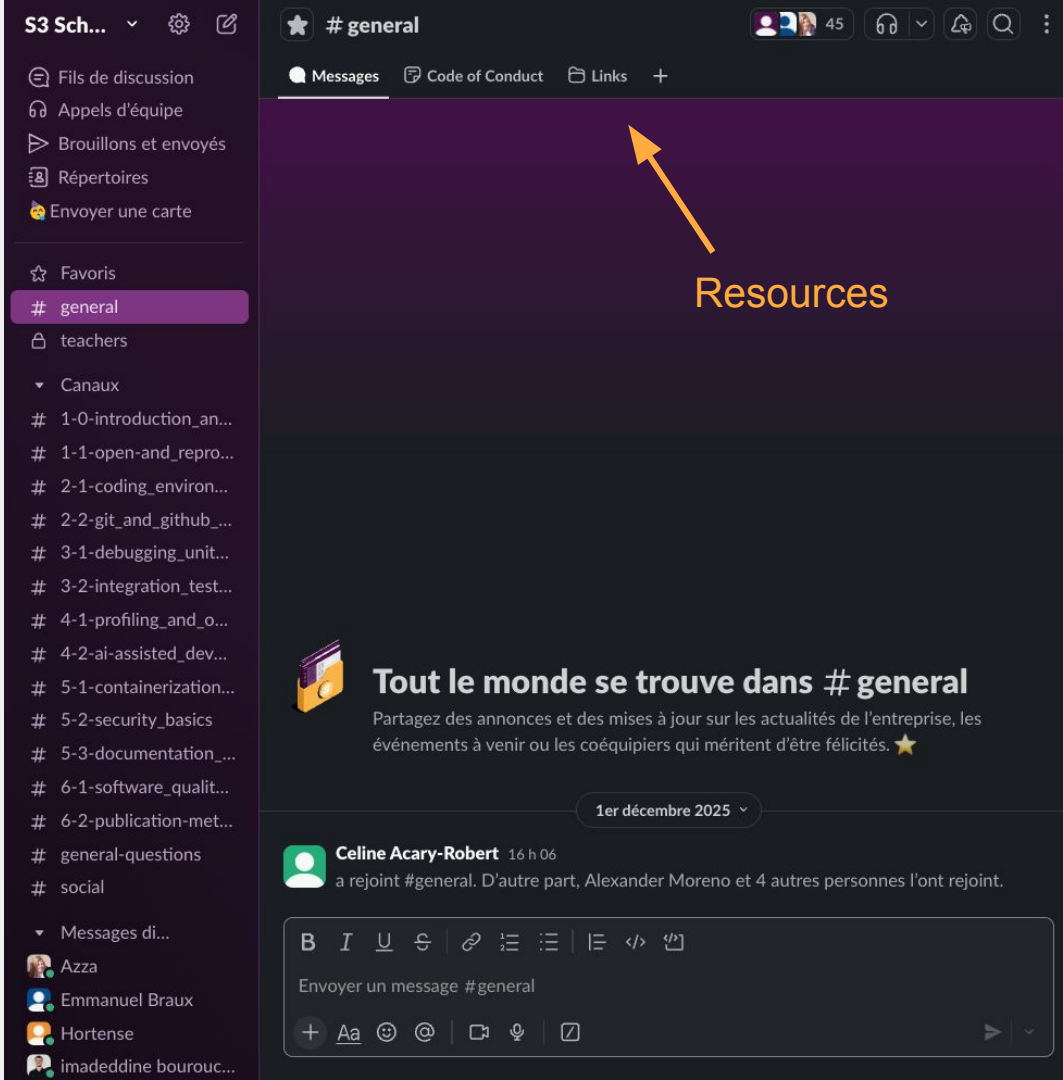
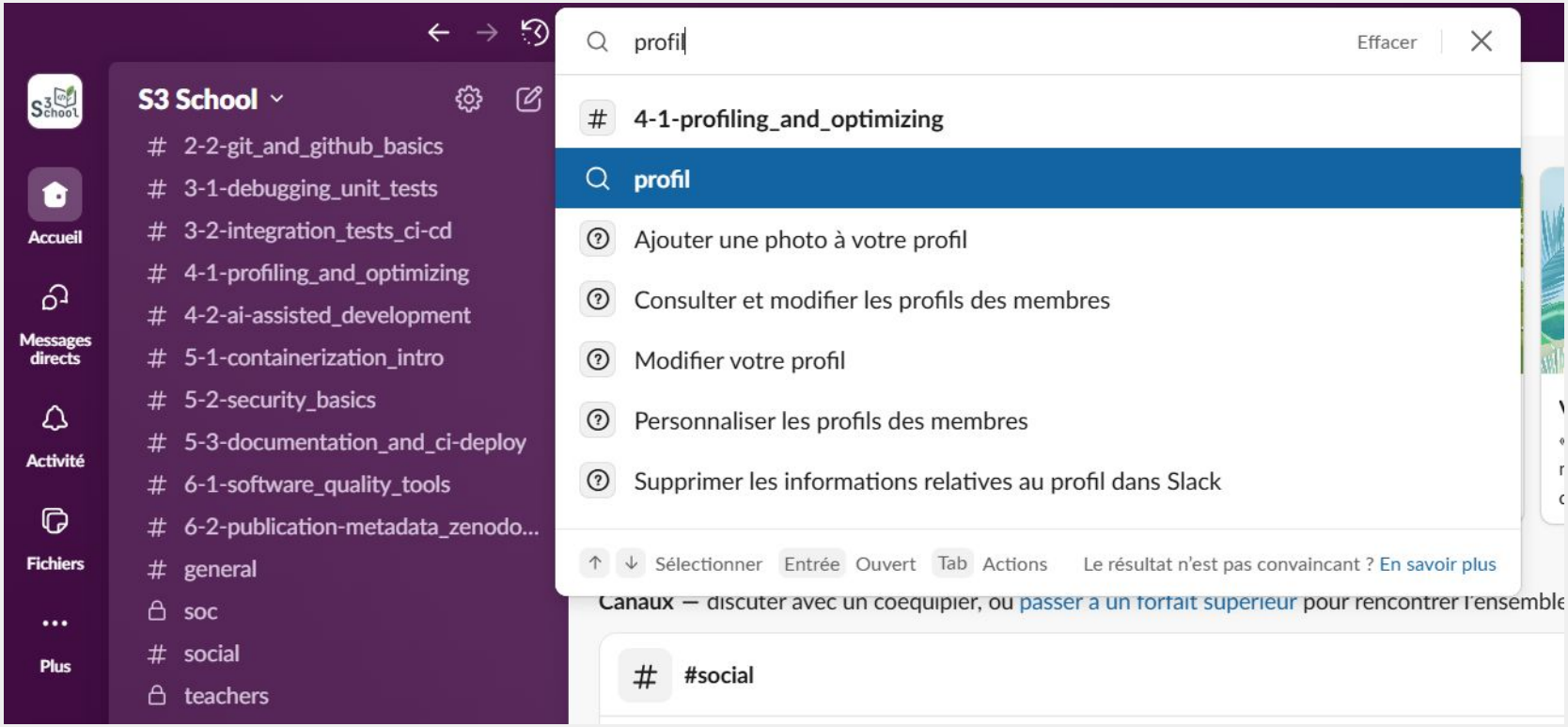
Communication : Slack

- **#general** : announcements and general questions
- **#X-Y-...** : questions and discussions on specific lectures
- **#social :** ☕
- use **threads** to answer questions please !
- and you can also **direct message** fellow participants





Type the name of the course in the search bar and you will find it.

This evening

- Welcome cocktail with tartiflette this evening
- At the same time, presentations will take place at EUTOPIA.

From 6:30 to 7 PM

- Group 1 → EUTOPIA (presentations)
- Group 2 → Grande Galerie (tartiflette)

From 7:15 PM

- Group 1 → Grande Galerie (tartiflette)
- Group 2 → EUTOPIA (presentations)

Recognition

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- 📄 Collaborative writing: all participants will contribute to a joint a document at the end of the school.
- 🎓 Certificate of Participation
- 🏅 Recognition on Apicuron — The platform to credit and acknowledge scientific contributions, for both instructors and participants.

For those who have not replied to the survey, please send your ORCID to azza.gamgami@lapp.in2p3.fr to be added to the Apicuron framework.

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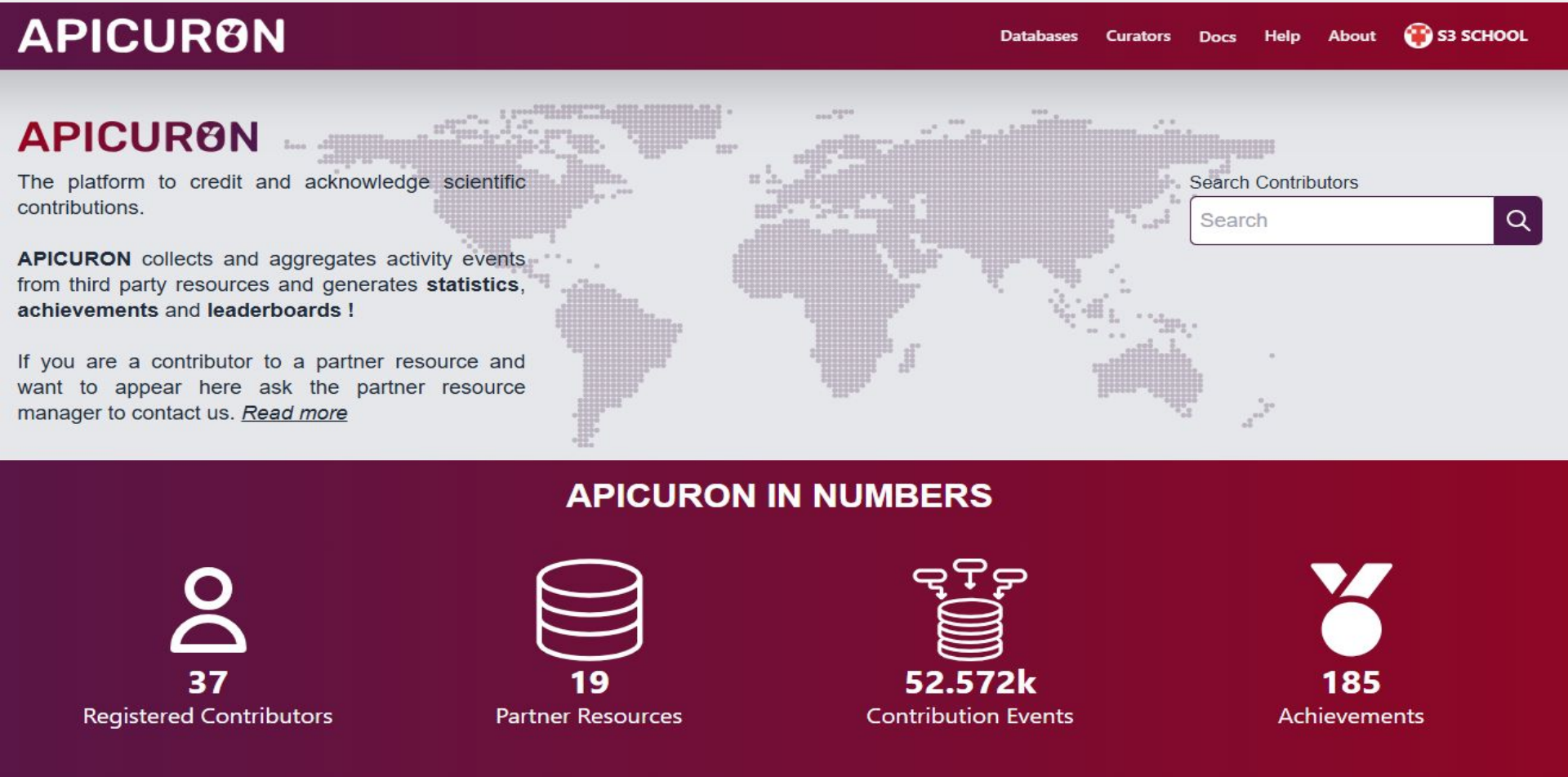
APICURON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Curators
Docs
Help
About
S3 SCHOOL
APICURON
The platform to credit and acknowledge scientific contributions.
APICURON collects and aggregates activity events from third party resources and generates statistics, achievements and leaderboards !
If you are a contributor to a partner resource and want to appear here ask the partner resource manager to contact us. Read more
Search Contributors
Search
APICURON IN NUMBERS
37
Registered Contributors
19
Partner Resources
52.572k
Contribution Events
185
Achievements

DisProt

The database of intrinsically disordered proteins

Visit website

DisProt is a database of intrinsically disordered proteins. Disordered regions are manually curated from literature. DisProt annotations cover both structural and functional aspects of disorder detected by specific experimental methods. Annotation concepts and detection methods are encoded in the Disorder Ontology

Database statistics

93	58386	10/08/2016	13/01/2026
Unique Contributors	Contributions committed	Joined APICURON	Most Recent Contribution

Monthly Leaderboard | Weekly Leaderboard | Total Leaderboard

What Contributions can be done on DisProt ?

show more

Structural state region generated	Region statement generated	Region transition revised	Novel publication
Structural state region created	Created article snippet supporting the evidence	Transition state region revised	Added publication not available before in the database
10 Generation	5 Generation	5 Revision	50 Generation

Badges

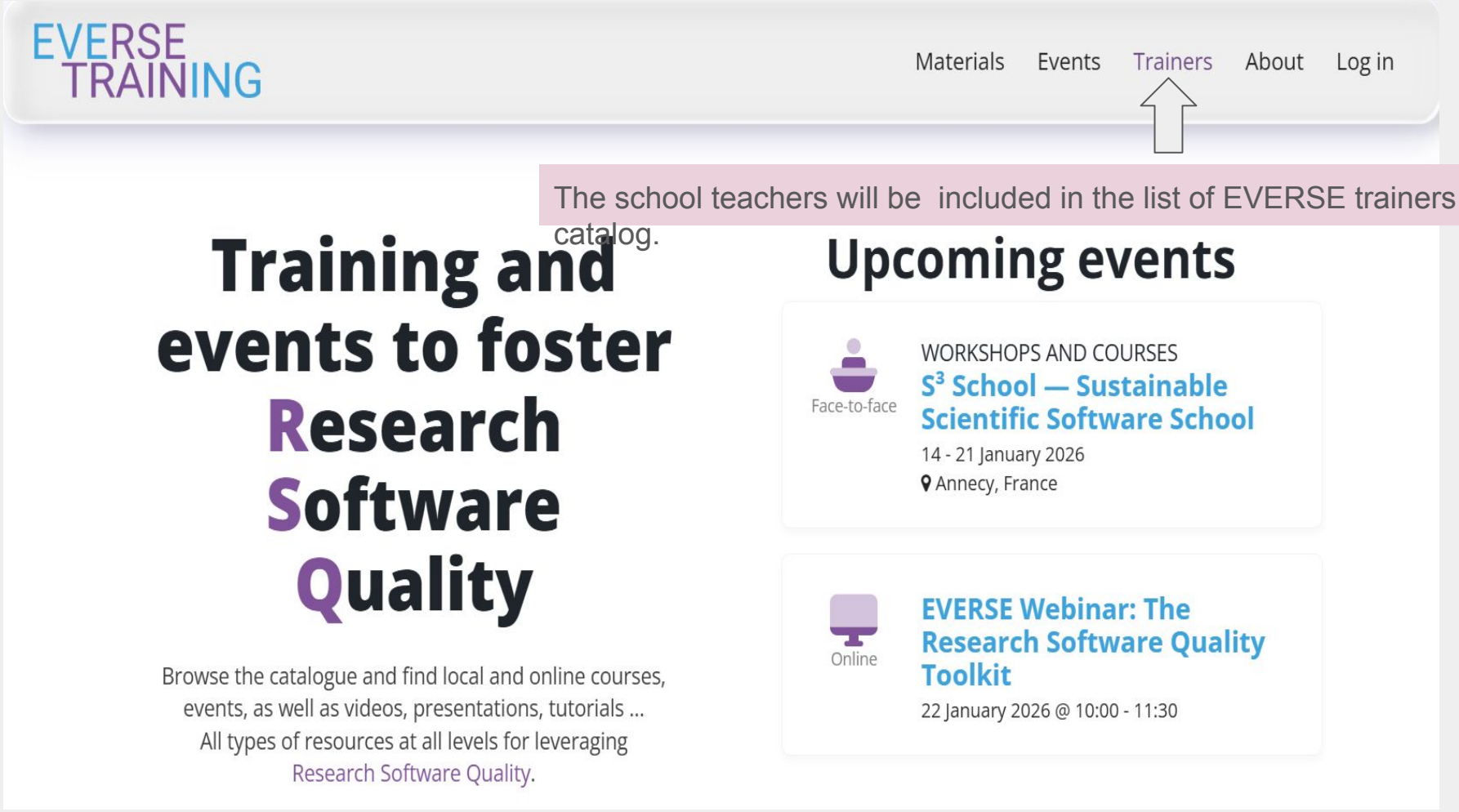
show more

Advanced curator Requires completing **500** activities Activities	**Advanced reviewer** Requires completing **500** activities Activities	**Ambiguity tag fanatic** Requires completing **1000** activities Activities	**Ambiguity tag genius** Requires completing **100** activities Activities
Ambiguity tag master Requires completing **50** activities Activities	**Ambiguity tag newbie** Requires completing **10** activities Activities	**Ambiguity tag wizard** Requires completing **500** activities Activities	**Bibliophile** Requires completing **10** activities Activities

Medals

show more

All time best biocurator Requires ranking 1st Required Contributions	**All time top 10 biocurator** Requires ranking among the top 10	**All time top 25 biocurator** Requires ranking among the top 25	**Best biocurator 2016** Requires ranking 1st Required Contributions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The school teachers will be included in the list of EVERSE trainers catalog.
Training and events to foster Research Software Quality
Browse the catalogue and find local and online courses, events, as well as videos, presentations, tutorials ... All types of resources at all levels for leveraging Research Software Quality.
Upcoming events
Face-to-face
WORKSHOPS AND COURSES
S³ School — Sustainable Scientific Software School
14 - 21 January 2026
Annecy, France
Online
EVERSE Webinar: The Research Software Quality Toolkit
22 January 2026 @ 10:00 - 11:30

PRACTICAL INFORMATIONS

LAPP has started an environmental approach

Waste

No pick-up in the meeting – conference rooms

Personal / Voluntary contribution by each participant at the collection point:

La Grande galerie

The Coffee-room / Cafeteriat

Separate and dispose of waste according to the symbols on the containers.

Breaks & meals

We encourage vegetarian meals whenever possible and local products.

The cutlery we provide is the property of LAPP, and the dishes offered by our service providers are served in reusable containers. This allows us to limit the use of non-reusable packaging.

At the end of the meal, we ensure that any leftover and waste is properly thrown away.

You do not need to do anything.

Smokers

Smoking and vaping are prohibited. **EXCEPT:**

At the back of Grande Galerie

Square

Who are we ?

Thomas Vuillaume

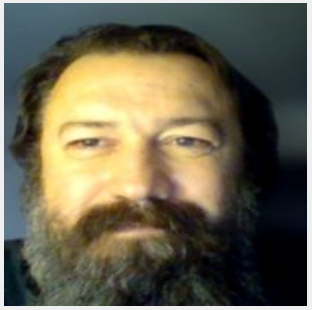
Azza Gamgami

Karl Kosack

Alexander Moreno

Céline Acary Robert

Maximilian Linhoff



Romain David

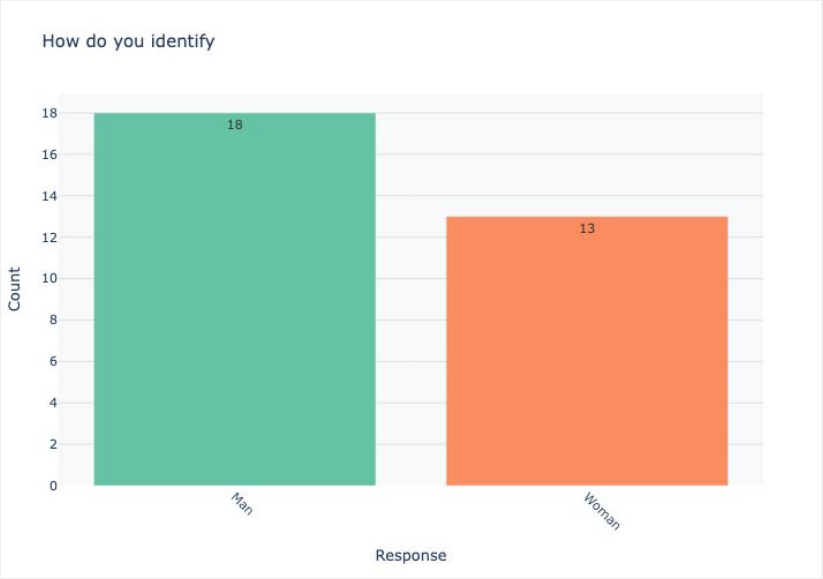
Vincent Pollet

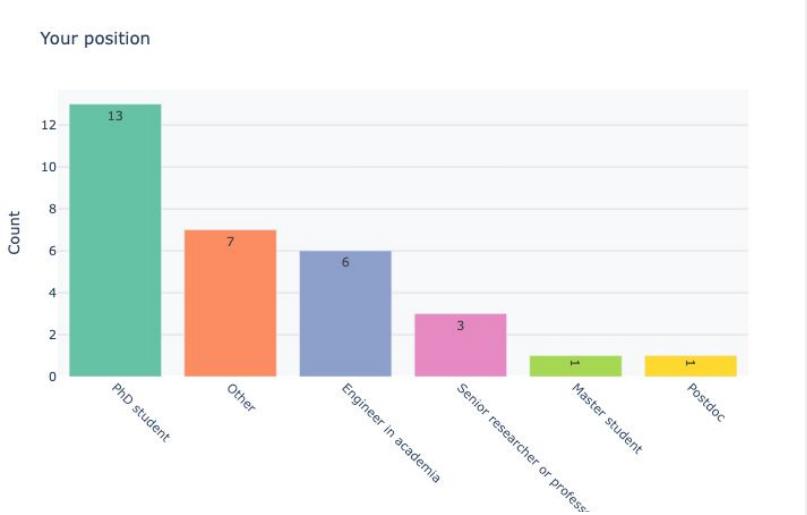
Hugo Bacard

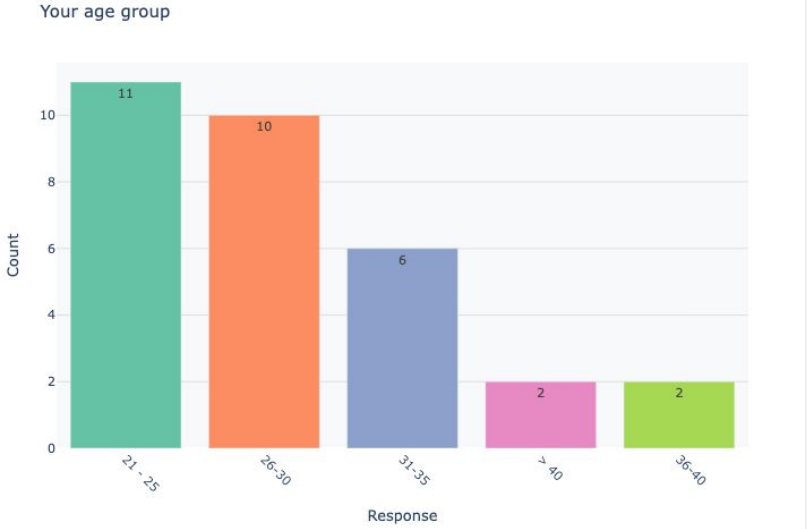
Justin Bussery

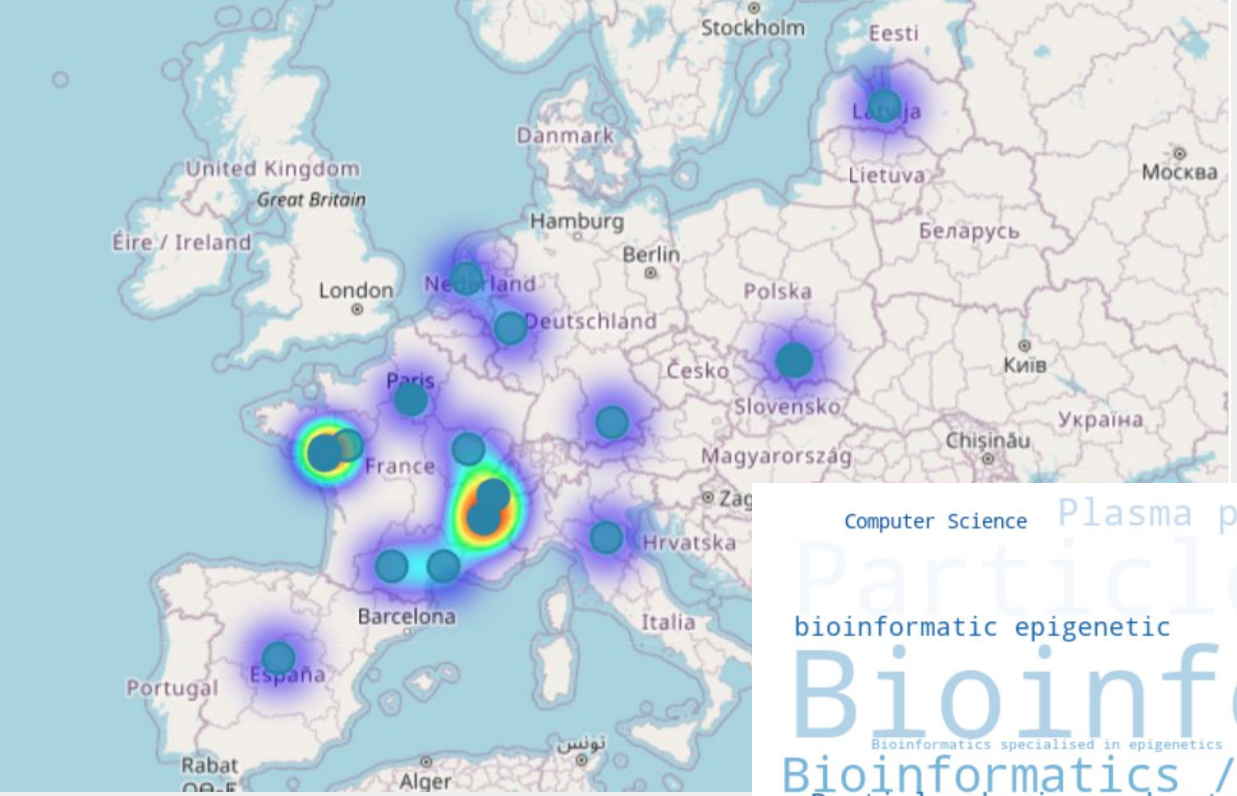
Who are you ?

- 38 registered participants (31 answers)

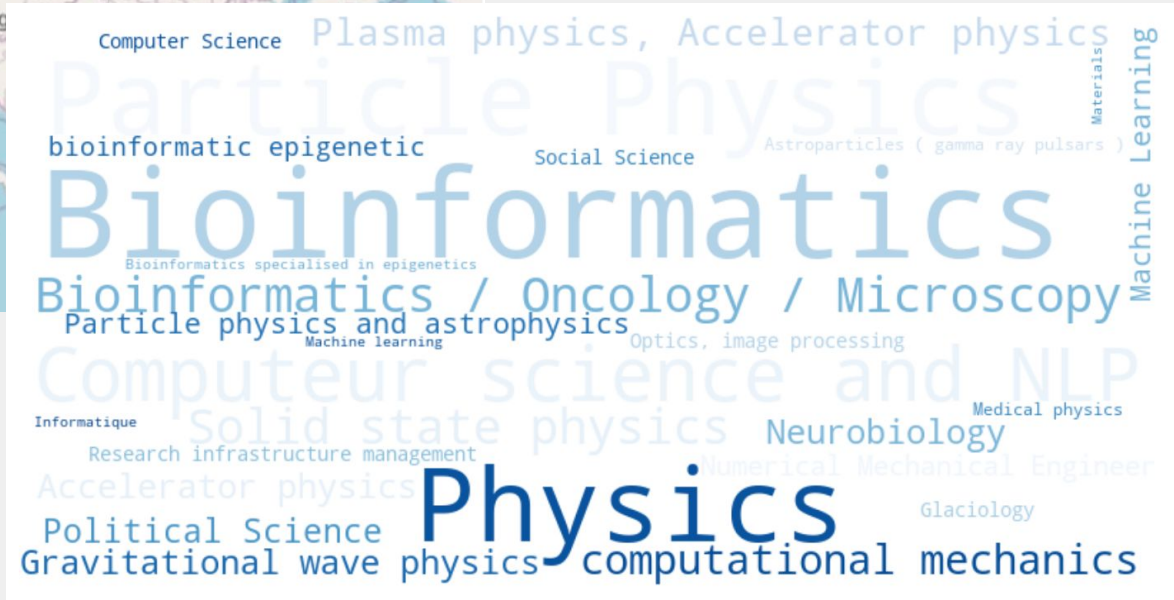








A variety of origins and backgrounds



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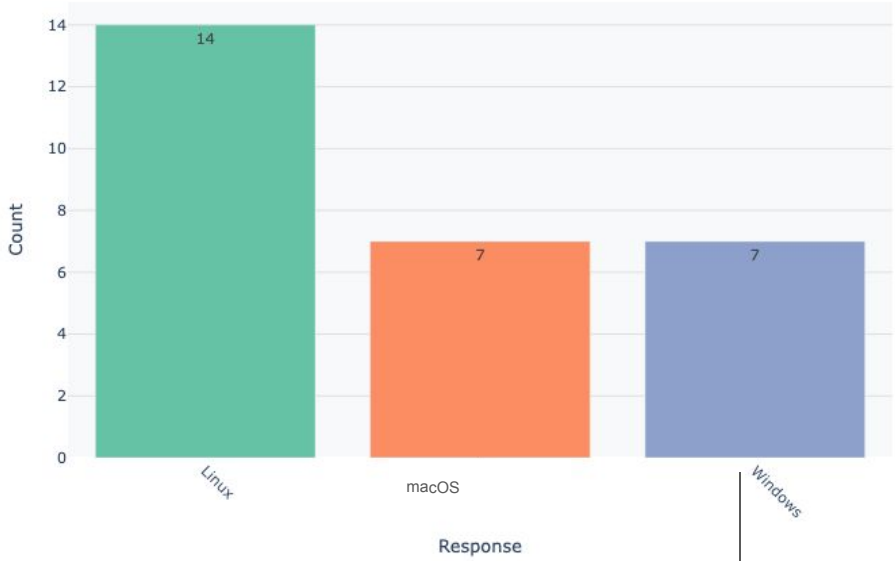
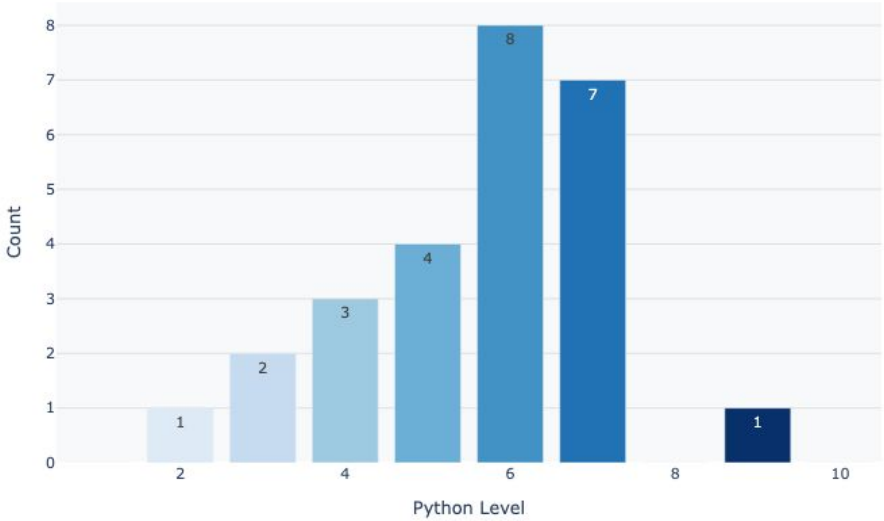
Your operating system



Your Python level from 0 (never heard of it) to 10 (you are Guido van Rossum)



how many use WSL ? ✋

School agenda

https://indico.in2p3.fr/event/36319/timetable/#20260114

- The school program is thought to follow the steps of construction of a scientific library. Each step is a different day:
    1. *Start your project* 🎯📐
    2. *Build & Code* 💻⚙️
    3. *Test & Improve* 🔍🐞
    4. *Secure & Deploy* 🔒🛡️
    5. *Evaluate & Publish* 📝🌍

- You will take over the work of a former student who defended their thesis and left behind their code

pkoffee project

- A single script that led to a scientific study
- What could have been done to ease follow-up or replication studies ?
- https://github.com/s3-school/pkoffee

Explore more content

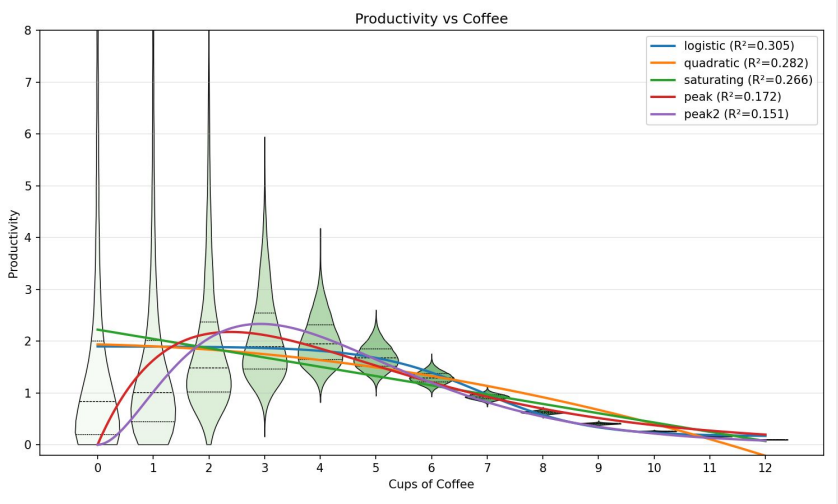
…re journal (2025) 00, 1–5
https://doi.org/10.6084/m9.figshare.31049104

Quantifying the Relationship Between Coffee Consumption and Developer Productivity: An Observational Study in a Software Engineering Laboratory

JEAN DUPONT*
Laboratory for Human-Centred Computing, Université de Montclair, 12 Rue des Sciences, 75000, Fictionland
*Corresponding author: jean.dupont@umontclair.edu

[Received on 12 June 2025; revised on 03 September 2025; accepted on 21 September 2025]

We report an observational study conducted in a university software engineering laboratory investigating the relationship between daily coffee consumption and developer productivity. Over a 12-week project-based course, we collected $N = 200{,}000$ time-stamped records combining self-reported coffee intake with automatically extracted development activity (Git commits) and issue-tracker events. Productivity is operationalised as the ratio between commits and defect-related events. Five parametric models were fitted to the observed data, including quadratic, saturating, logistic, and peaked functional forms. Model comparison
numerical
a robust u



☕ pkoffee project along the week

- starting from the same script, you will build your own version applying what you learned each day
- if you prefer to be safe, the solution of the day will be pushed to the repository every evening so you can stay in synch

Lectures material

Extra material and slides will be available at

https://s3-school.github.io/s3-2026-lectures/

Welcome !

We hope you have a fruitful week and look forward to discussing with you all 😃

Questions ?