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Spanish Network on Advanced Computing for Fundamental and Applied Physics

Arantza Oyanguren & Luca Fiorini
on behalf of the COMCHA Executive Board

WPs meeting, 15th September 2026



Introduction



Spanish Network on Advanced Computing for
Fundamental and Applied Physics

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13 teams + 2 infrastructures:



Fields of Computing, High Energy Physics, Astroparticles and Applied Physics.



- Spontaneous initiative originated about one decade ago (started from HEP experiments).
- Transversal network: exchange of ideas, tools, expertise...
- One of the main objectives was to empower PhD students with advanced computing skills to be competitive (virtual meetings and COMCHA schools).
- We wanted also to give value to the people making contribution in computing related tasks.
- We followed other collaborations in computing: IRIS-HEP, HSF... (see [arXiv:1712.06982](https://arxiv.org/abs/1712.06982))
- Underfunded, most of activities are thanks to the motivation and individual commitments of the network members.
- Bottom-up network, not hierarchical: it has become quite solid and efficient.
- We have applied for funding (strategic network) and established a roadmap and governance plan.

Governance: *Executive Board*

Executive Board



Arantza Oyaguren (IFIC)
Coordinator



Luca Fiorini (IFIC)
Coordinator



Xavier Cid Vidal (IGFAE)



Diego Martínez Santos (UdC)



Veronika Chobanova (UdC)



Santiago Folgueras (ICTEA-UO)



Pietro Viscia (ICTEA-UO)



Isidro González Caballero (ICTEA)



Pablo Martínez del Árbol (IFCA)



Xavier Vilasis (URL)



Elizabeth Golobardés (URL)



Carla Marín (UB)



Daniel Cagigas (ETSI-US)



Miguel Ángel Martínez del Amor (ETSI-US)



Héctor Gómez (CAPA-UZ)



Jose Salt Cairós (IFIC)



Siahna Peñaralba (CAPA-UZ)



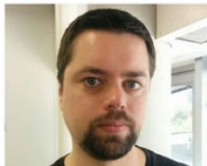
Cristina Fernández (CIEMAT)



Alvaro Navarro (CIEMAT)



Daniel Nieto Castaño (UCM)



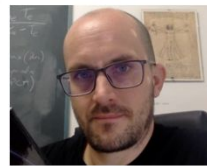
Martin Berstad Eriksen (IFAE)



Pepe Filix (CIEMAT)



Jose Enrique García Navarro (IFIC)

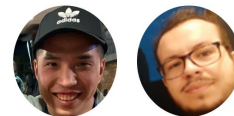


Bruno Zamorano (U. Granada)

Governance: *Working groups structure & conveners*

WP1: Reconstruction & Data Processing

Jiahui Zhuo (IFIC/UCAS),
Felipe L. Souza de Almeida (UB)



WP2: Simulation & Modeling

Carlos Vico (Rice U./ICTEA)
Jorge Alda (Padova U./CAPA)



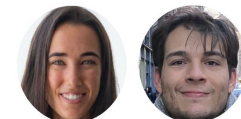
WP3: AI Methods

Cilicia Uzziel Perez (URL)
Maria Pereira (IGFAE)



WP4: Computing Platforms & Infrastructure

Pablo Collado (UAM/CIAFF)
Marta Bertrán (CERN)



WP5: Data Management & Analysis

Judith Sainz Pardo (IFCA)
Emma Torró (IFIC)



WP6: Emerging Technologies

Miriam Lucio Martínez (IFIC)
Pietro Vischia (ICTEA)



WP7: Collaboration & Community

A. Oyanguren, L. Fiorinic (IFIC)

Distribution lists:

General: comcha@pegaso.ific.uv.es

Executive Board: comcha-eb@pegaso.ific.uv.es

WP conveners: comcha-wp@pegaso.ific.uv.es

Please subscribe to the general one if you are not there!

mattermost channel for comcha-wp?

Meetings & workshops:

- Dedicated workshops (e.g. [2nd COMCHA Workshop A Coruña](#)).
Next one at the beginning of next year in Barcelona on LLM's.
- CPAN days ([XVII CPAN Days Valencia](#)). Next one in [November '26](#) (Alcalá de Henares).



Training:

COMCHA Schools:

The network has dedicated schools (see e.g. [4th COMCHA School](#) , Zaragoza '26)

- The 5th COMCHA School will be held in Santander (IFCA) in May '27.



Raymundus Lullus program:



Virtual lectures aiming at supporting established researchers and engineers in gaining expertise in artificial intelligence, machine learning, and advanced computing technologies.

Lecture 1: Transformers - <https://indico.ific.uv.es/event/8701/>

Lecture 2: AI-Assisted code - <https://indico.ific.uv.es/event/8702/>

Next events:

- CPAN meeting: 15-17 [November '26](#) (Alcalá de Henares).
- 5th COMCHA School: May 6-13 (Santander, IFCA).
- “Agentic-AI, Gigantic Alm” workshop: April 5-7 (Barcelona, URL).

Please, register to the CPAN meeting.

- Abstracts accepted until the end of the month
- Send us your availability to chair the COMCHA sessions.

Message:

Thanks for accepting this role and help us to improve the network

What we expect from you:

- Low workload, but a high level of commitment and motivation.
- To help us to formally organize the network: organize/chair CPAN meetings, workshops, schools... be aware of what it is going in our groups and the international state of the art.
- To help us to keep updated our web page: bring “news”, opportunities, connections, projects, etc...
- Make the work of our researchers visible and valuable (in conferences, meetings...).
- To develop your career inside the network, learn, teach, take advantage of what it offers, and mutually benefit.
- I.e. help us to build it and make it a reference network.



Thank you!