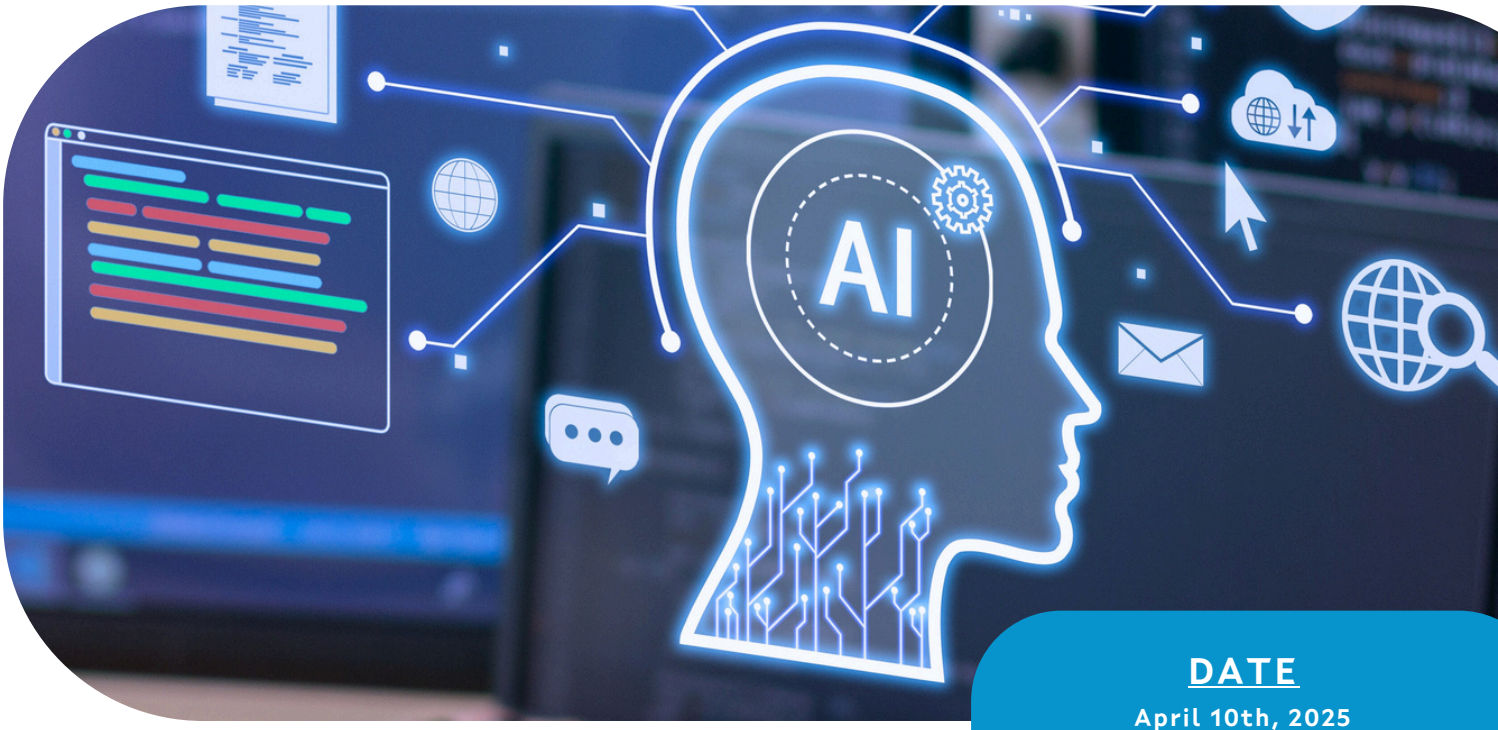
Red CIGUS
Centros de investigación del
Sistema Universitario de Galicia

RESPONSIBLE USE OF GENERATIVE AI IN RESEARCH SUPPORT, FROM BEST PRACTICES TO PROJECT WRITING

This activity is organised within the CIGUS Network framework. CIGUS is a superstructure that integrates centres whose research quality and excellence have been certified by the Autonomous Government of Galicia (Xunta de Galicia). The CIGUS Network is financed by the Regional Ministry for Culture, Education, Vocational Training and Universities of the Autonomous Government of Galicia and co-funded by the European Union.



Generative AI has emerged as a powerful tool with a wide range of applications, such as efficient data management, project coordination, and proposal writing. However, its use also presents ethical and strategic challenges that must be addressed to ensure a responsible implementation.

This course offers a **practical framework for understanding the potential of generative AI** and **applying best practices** in its use cases. Through a dynamic, example-based approach, participants will explore how to manage data transparently, mitigate bias, safeguard privacy, and prevent the spread of misinformation. In addition, the course will introduce tools and methodologies to apply these principles in the day-to-day work, ensuring that AI is used responsibly within the professional environment.

OBJECTIVES

1. Understand Generative AI: Define generative AI and its applications.
2. Ethical Considerations: Explore the ethical implications of generative AI, including bias, privacy, and misinformation.
3. Best Practices: Learn best practices for responsible use, including data management, transparency, and accountability.
4. Case Studies: Analyze real-world examples of use of generative AI in project writing.
5. Practical Tools: Provide participants with tools and frameworks to implement responsible AI practices in their work.

DATE

April 10th, 2025
10:00-14:00 hours

FORMAT

In person

LOCATION

FEUGA building
Santiago de Compostela
(Reserved parking for attendees)

ENROLLMENT DEADLINE

April 4th

TARGET AUDIENCE

Management an administration staff of CIGUS Network Centres

LANGUAGE

English

PROGRAMME

PART 1 - FOUNDATIONS OF GENERATIVE AI

- Introduction to Generative AI: Definition, applications, and current trends.
- Ethical Considerations:
  - Bias and Fairness: Understanding and mitigating bias in AI.
  - Privacy and Security: Ensuring data privacy and security in AI systems.
  - Misinformation and Manipulation: Addressing the risks of misinformation and manipulation.
- Breakout Session: Group discussions on ethical challenges and potential solutions.

PART 2 - BEST PRACTICES AND IMPLEMENTATION

- Best Practices for Responsible Use:
  - Data Management: Best practices for data collection, storage, and use.
  - Transparency and Accountability: Ensuring transparency and accountability in AI development and deployment.
- Case Studies: Real-world examples of AI use in project writing.
- Practical Tools and Frameworks: Tools and frameworks for implementing responsible AI practices.
- Hands-On Session: Participants will work on applying these tools to their own projects or scenarios.
- Q&A and Wrap-Up: Open forum for questions and sharing insights, brain storming on organizational action plan for responsible AI use.

TRAINING METHODS

With nearly two years of experience running a generative AI learning circle in research settings, Dr. Jouvet will guide participants through key concepts, case studies, and practical tools to ensure that generative AI is used responsibly and effectively in various applications.
The workshop will be highly interactive, encouraging audience engagement and participation.

TRAINER

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LIONEL JOUVET
Data Scientist at Southern Denmark University

Dr. Lionel Jouvet is a member of the data team in the research support unit of SDU RIO (Southern Denmark University, Research and Innovation Organisation). He is a Marine Biologist (Ph.D., 2010) and Data Scientist with a passion for innovation and problem-solving. His career spans academia and industry, with a focus on ethical practices and responsible technology use.
During his academic journey, Dr. Jouvet worked in marine biology, bio-demography, and conservation (2013-2019). His focus was on developing new methods and techniques. The shift from lab-based research to coding was driven by the increasing volume, complexity, and changing types of data, leading him to Natural Language Processing (NLP) and later to generative AI as new algorithms emerged.

In the industry, Dr. Jouvet has worked on several impactful projects. At NatureMetrics (2021), he developed 3D-printed prototypes for eDNA samplers and lab robots, building two Voron 3D printers to produce these tools. During his time at Partec GmbH (2011), he contributed to R&D efforts to create affordable point-of-care diagnostic tools for HIV, malaria, and tuberculosis, aimed at improving healthcare in developing countries.

As a Mistral AI Ambassador, Dr. Jouvet is committed to promoting the ethical use of generative AI. He engages with the research support community, sharing his expertise and producing a video lecture series on the responsible use of generative AI in research support for CARDEA Academy, an open-access online training resource. Currently, he is developing locally run LLM tools for research support and has created a generative AI learning circle, fostering collaboration and knowledge sharing.

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