

SUMMER BIP PHD PROGRAMME - 3 ECTS

FROM DATA TO INSIGHT: STATISTICS, VISUAL ANALYTICS, AND GENERATIVE AI



Short description

This **Blended Intensive Programme**, organised by Deusto International Research School (DIRS), provides a practical introduction to core quantitative research skills for participants from engineering and other disciplines. The programme is organised in three blocks: basic statistics, data analysis and visualisation using accessible tools, and responsible use of **generative AI for research** and advanced tasks such as code assisted analysis. The online component focuses on core concepts and guided practice. The **in person week** consolidates learning through hands on activities and peer feedback.

Learning outcomes

1. Interpret and compute key descriptive statistics and communicate uncertainty in a research context.
2. Apply basic probability concepts and simple hypothesis testing to common research questions.
3. Create clear and effective visualisations and critically assess common errors and misleading charts.
4. Produce a short, reproducible analytical report including data preparation steps, visual outputs, and interpretation.
5. Use generative AI tools responsibly to support research work, including prompt design, verification of outputs, and ethical and data protection considerations.



Participants:

PhD students, open to other advanced learners from different faculties with sufficient background



Blended Programme: online component via ALUD plus a short term in person intensive week at University of Deusto (Bilbao)



Online part:

From 22nd to 26th of June
From 29th of June to 3rd of July

On Site part:

From 8th to 12th of July



Price: Free of charge. To apply for Erasmus+ grant please contact the IRO at your University or Faculty

