# The Institute of Data Science and Artificial Intelligence

# University of Navarra

The Institute of Data Science and Artificial Intelligence (DATAI) is seeking applications from outstanding students with an excellent track record in Bioinformatics and Data Science to fill one **PhD Fellow in Machine Learning for Digital Medicine** position**.** The position is funded for three years through a European ERA PerMed grant in the Prevention in Personalized Medicine program (ERA Net Grant 779282). **The candidate is expected to successfully defend a PhD dissertation within 3 years from the hiring date or soon after.**

In the framework of the ERA PerMed joint transnational call for proposals (2022) for prevention in personalized medicine, the PORTRAIT project aims to develop a multiomic stratification and non-invasive tool for early recognition of triple negative and Her2+ breast cancer patients' responders to neoadjuvant therapy. We are seeking a highly motivated student to join our team. The successful candidate is expected to develop new methodological approaches to mine multimodal bioinformatics datasets and produce statistical models able to predict response to neoadjuvant treatment.

The University of Navarra (UN) is a leading research university, consistently ranked among the top 500 universities in the world (Center for World University Rankings 2022). It is a private university, founded in 1952, with campuses in Pamplona, San Sebastián, Barcelona, and Madrid. Pamplona is a welcoming city with a great offer of leisure activities, shopping, and eating options, all aligned with the tradition and quality of the Navarrese products. Geographically, Pamplona is situated at the center of the province, which makes it very convenient to explore other interesting cities and resorts across the province.

We are looking for promising young researchers who hold a MSc degree in bioinformatics/data science or a close related field, able to effectively communicate and present research ideas, and with a high level of written and spoken English. Applicants are expected to contribute to the development of the research portfolio of the DATAI.

## Qualifications

**Essential Criteria**

- MSc degree in Bioinformatics, Computational Biology, or a close related field.
- Demonstrated knowledge in machine learning techniques and mathematics.
- Good programming skills in Python and R.
- Ability to effectively communicate and present research ideas.
- Fluent in written and spoken English.

**Desirable Criteria**

- Previous research experience.
- Experience interacting with clinical centers and medical doctors.
- Strong communication and interpersonal skills.

# Job and Application Process

**Position Description**

- **PhD Fellow in Machine Learning for Digital Medicine.**
- The position is based at UN Pamplona's central campus. A hybrid virtual and in-person arrangement could be discussed.

**Deadline**

- Review of applications is ongoing and will continue until the position is filled.

**Information Required**

1. Cover Letter with statement of interest and summary of career trajectory (2 pages maximum, in English).
2. CV with updated list of publications (if any) and previous research experience.
3. Transcripts of master's and bachelor's degrees.
4. Contact details for two professional references.

**Application Process**

1. Applicants should submit the required information by email to rarmananzas@unav.es.
2. Selection of candidates based on CV.
3. Take-home test with deadline.
4. Round of online/in-person interviews.

**Package Offer**

- **Three years of contract supported by the PORTRAIT ERA PerMed project.**
- **Gross annual salary in the 17-18 thousand Euros range (yearly dependent).**
- **Opportunity to join a fast-growing research center to work on a socially impactful topic.**