

Data science applied to health data analysis

Opportunities

Artificial intelligencebased solutions for general wellbeing

MRI-based diagnostic aid **Personalized** treatments

MRI-based disease modelling solutions

Precise e-healthcare interventions

Privacy and ethics in health data science

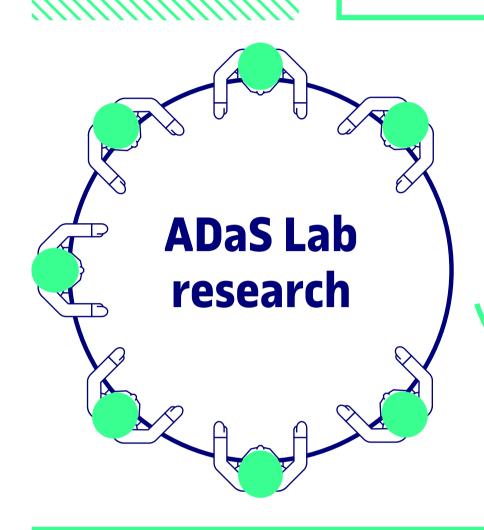
Data sciencebased biomarkers

Challenaes

Ethics and privacy

Plenty of research, but limited impact on healthcare systems due to pending issues:

- Difficulty in explaining results
- Responsibility for autonomous systems' decision-making
- Difficulty for generalization and large-scale adoption



ADaS Lab harnesses the latest advances in artificial intelligence (AI) to improve people's health and quality of life.

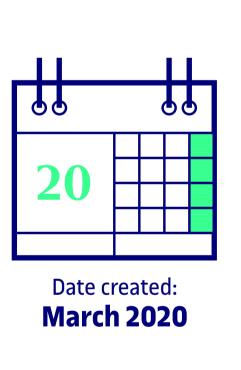
Using data science to optimize clinical data analysis, especially in medical image processing.

Analysing medical data multidimensionally to personalize treatments and devise precise healthcare interventions, in order to combat the neurodegenerative diseases greatly affecting society.

Attached to the UOC's eHealth Center.



Team











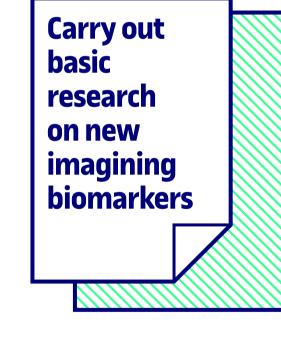
Marcos Diaz Hurtado

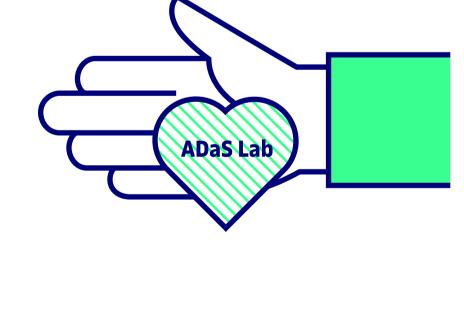


Mission







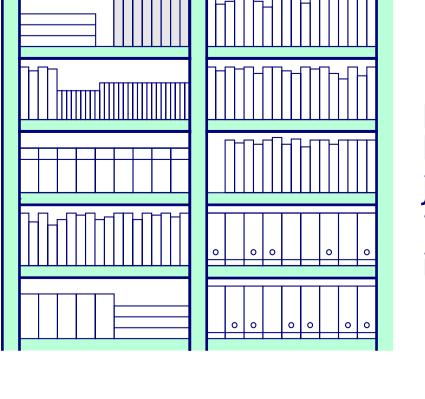


Aims



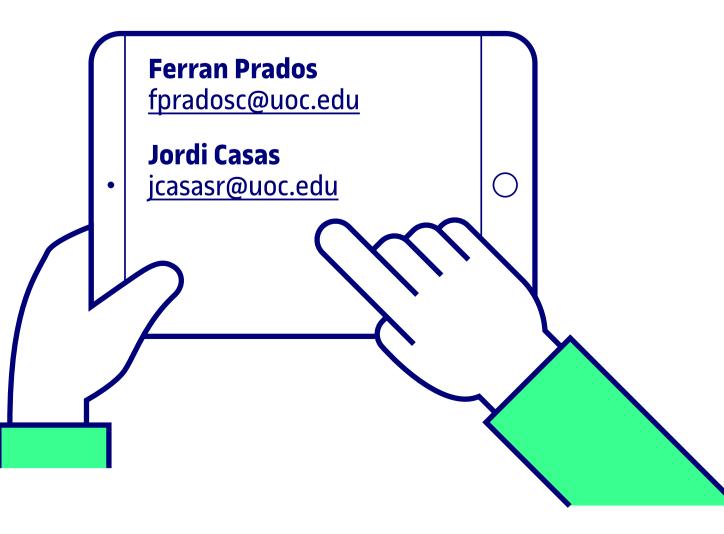
ADaS Lab turns data science innovations into real public-health improvements: • Building ultra-efficient AI-based solutions for optimal data analysis that leads

- to precision e-healthcare and general well-being. •Designing AI-based tools to enable the next generation of biomarkers and
- predictive analytic solutions.



57 publications in high-standing journals, such as The Lancet Neurology, in the past two years (2019-2021)

Contact





The **mission** of the eHealth Center, the Universitat Oberta de Catalunya's e-health research centre, is to foster cross-disciplinary e-health research and innovation at the University so it can become an agent of social change that drives transformation in the healthcare system.