



PhD in INGEGNERIA GESTIONALE / MANAGEMENT ENGINEERING - 40th cycle

THEMATIC Research Field: ARTIFICIAL INTELLIGENCE TO PURSUE SUSTAINABILITY AND RESILIENCE

Monthly net income of PhDscholarship (max 36 months)

€ 1500.0

In case of a change of the welfare rates during the three-year period, the amount could be modified.

Context of the research activity

<p>Motivation and objectives of the research in this field</p>	<p>In the current competitive landscape, Artificial Intelligence (AI) technologies can play a relevant role in promoting sustainability in several ways, ranging from environmental monitoring and conservation, energy optimization, disaster response and resilience, to social equality and accessibility. The PhD thesis will address, in particular, the development of predictive models that inform decision-making processes of private organizations and policy makers, relying on the integration of heterogeneous data sources.</p>
<p>Methods and techniques that will be developed and used to carry out the research</p>	<p>The PhD thesis will be developed based on a mix of research methodologies, giving particular emphasis to new approaches in the fields of statistical modeling and data analysis, using ideas that bridge the gap between statistics and machine learning and develop tools for the statistical treatment of big data.</p>
<p>Educational objectives</p>	<p>The PhD candidate will learn:</p> <ul style="list-style-type: none"> - how to frame complex problems in the field of sustainability - how to manage large, heterogeneous and unstructured data - how to develop statistical models and tools to understand and address such problems
<p>Job opportunities</p>	<p>PhD graduates in this research field can access a</p>



	diversified range of job opportunities, including advisory and strategic consulting companies; multinational companies; public institutions and universities at the national and international level.
Composition of the research group	3 Full Professors 1 Associated Professors 4 Assistant Professors 2 PhD Students
Name of the research directors	Marika Arena and Giovanni Azzone

Contacts	
marika.arena@polimi.it	

Additional support - Financial aid per PhD student per year (gross amount)	
Housing - Foreign Students	--
Housing - Out-of-town residents (more than 80Km out of Milano)	--

Scholarship Increase for a period abroad	
Amount monthly	750.0 €
By number of months	6

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information	
<p>Computer availability for individual use; Desk availability for individual use:</p> <ul style="list-style-type: none"> •Involvement in projects: "For the overall development of their capabilities, PhD candidates will work on sinergical projects to favour empirical data collection and network development for their career. Projects will give candidates the opportunity to work in group (peers and other senior professors)". •Teaching and tutoring: "If coherent with the development of their doctoral program, the PhD candidate will have the opportunity to be involved in: teaching activities, tutoring to master students, tutoring to PhD candidates for administrative processes". <p>Funding for educational activities: 6.100,00 Euros for three years.</p>	