



PhD in DATA ANALYTICS AND DECISION SCIENCES - 38th cycle

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| Number of scholarship offered | 5 |
| Department | DIPARTIMENTO DI ELETTRONICA, INFORMAZIONE E BIOINGEGNERIA |

| Description of the PhD Programme | |
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| <p>The PhD program in Data Analytics and Decision Sciences (DADS) aims at training highly qualified senior data analysts and data managers capable of carrying out research at universities, international institutions, tech and financial companies, regulatory authorities, and other public bodies. The program stems from the cooperation between three departments: Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Dipartimento di Ingegneria Gestionale (DIG), Dipartimento di Matematica (DMAT), and the Center for Analysis, Decisions and Society (CADS) at Human Technopole. It gives the enrolled students the opportunity to work in a highly interdisciplinary environment with strong connections to international research centers and private companies. The program provides successful candidates with the opportunity to acquire a high degree of professional expertise in specific scientific and technological fields. The program lasts three years: upon its successful completion and final exam, candidates will be awarded the title of PhD in Data Analytics and Decision Sciences. The first year is devoted to the courses that build the broad competence and the strong interdisciplinary set of skills required by data analytics. The next two years focus on the development of the Doctoral thesis. Students are required to spend at least one semester in a research institution abroad, taking advantage of the network of international collaborations of the three departments involved in the program. All the students enrolled in the DADS Doctoral Program are supported by scholarships from public institutions and private companies.</p> | |



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OPEN SUBJECT Research Field: DATA ANALYTICS AND DECISION SCIENCES

Monthly net income of PhDscholarship (max 36 months)

€ 1300.0

In case of a change of the welfare rates or of changes of the scholarship minimum amount from the Ministry of University and Research, during the three-year period, the amount could be modified.

Context of the research activity

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| <p>Motivation and objectives of the research in this field</p> | <p>The PhD program in Data Analytics and Decision Sciences aims at breeding the next generation of data scientists who will tackle the challenges and the opportunities created by the increasingly larger availability of data, cheap storage, and computer power. Data scientists who can capture the most relevant aspects of phenomena in play, develop adequate models, supervise the development of analytic pipelines, critically analyze the result, and support the technological transfer that the results might enable.</p> |
| <p>Methods and techniques that will be developed and used to carry out the research</p> | <p>The research aims at developing novel approaches for data analytics and decision science including novel statistical methods for complex data, new econometric setups, methods of advanced machine learning, as well as technological solutions to integrate massive amount of data from heterogeneous data sources.</p> |
| <p>Educational objectives</p> | <p>The research will be carried out in collaboration with the team of applied statisticians, economists, computer and management engineers from three departments, the Department of Management, Economics and Industrial Engineering, the Department of Mathematics, and the Department of Electronics, Information and Bioengineering. Within this lively and stimulating academic and research environment, the doctoral student</p> |



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| | will be educated to become a skilful researcher in Data Science. |
| Job opportunities | The profile of Data Scientist and the technological and methodological solutions proposed are of interest for a broad range of actors, including International institutions, policy makers, statistical and research centres, large corporations that aim to analyse heterogeneous data coming from various datasources. |
| Composition of the research group | 9 Full Professors 8 Associated Professors 0 Assistant Professors 11 PhD Students |
| Name of the research directors | Any faculty member |

| Contacts | |
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| PhD Coordinator Prof. Pier Luca Lanzi Email: pierluca.lanzi@polimi.it Voice: +390223993472 | |

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

| Scholarship Increase for a period abroad | |
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| Amount monthly | 650.0 € |
| By number of months | 6 |

| Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information | |
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| There are various forms of financial aid for activities of support to the teaching practice. The PhD student is encouraged to take part in these activities, within the limits allowed by the regulations. | |