PhD School - Politecnico di Milano

Regulations of the Ph.D. Programme in:

Data Analytics and Decision Sciences

Cycle XLI

1. General Information

PhD School - Politecnico di Milano

Ph.D. Programme: Data Analytics and Decision Sciences

Course start: September 2025

Location of the Ph.D. Programme: Milano Leonardo and Milano Bovisa

Promoter Departments:

- Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB)
- Dipartimento di Ingegneria Gestionale (DIG)
- Dipartimento di Matematica (DMAT)

Scientific Disciplinary Sectors

- MATH-03/A – Mathematical Analysis
- INFO-01/A – Informatics
- IBIO-01/A - Bioengineering
- IEGE-01/A – Business and Management Engineering
- IIND-05/A – Industrial Mechanical Plants
- IINF-03/A - Telecommunications
- IINF-04/A – Systems and Control Engineering
- IINF-05/A – Information Processing Systems
- ECON-07/A - Management
- STAT-01/A – Statistics

Areas

- 01 – Mathematics and Informatics
- 09 – Industrial and Information Engineering
- 13 – Economics and Statistics

Ph.D. School website: http://www.polimi.it/phd
Ph.D. programme website: https://phd-dads.polimi.it

2. General presentation

The Ph.D. programme in Data Analytics and Decision Sciences (DADS) aims at training highly qualified senior data scientists, data analysts and data managers capable of carrying out research at universities and research centers, international institutions, tech and financial companies, consultancies, regulatory authorities, and other public and private bodies.

The programme 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 Health Data Science (HDS) Center at Human Technopole. It allows the enrolled students to work in a highly interdisciplinary environment with strong connections to international research centers and private companies. The programme provides successful candidates with the opportunity to acquire a high degree of professional expertise in specific scientific and technological fields.

The programme spans three years. Upon successful completion and final examination, candidates are awarded a Ph.D. in Data Analytics and Decision Sciences. The first year is dedicated to two key objectives: completing courses that build a strong interdisciplinary skill set and comprehensive competences essential for data analytics, and formulating the research plan. The subsequent two years focus primarily on developing the doctoral thesis. Students are strongly encouraged to spend a semester abroad (ranging from a minimum of three months to a maximum of 18 months) at a research institution, benefiting from the extensive network of international collaborations established by the three departments involved in the programme. During this period, they may receive a 50% increase in their Ph.D. fellowship for up to six months.

The Ph.D. Programme is overseen by a Coordinator and a Faculty Board. The Coordinator presides over the Faculty Board, oversees the development of the annual Educational Programme, and manages the general educational activities of the Ph.D. course (see Attachment A1). The Faculty Board is responsible for both the Educational Programme and the administrative aspects of the Ph.D. course (see Attachment A2). Additionally, the Coordinator and the Faculty Board receive guidance from an Advisory Board consisting of external stakeholders from industries and institutions where data science serves as a key area of research (see Attachment A3).

3. Objectives

The programme aims at breeding the next generation of data scientists who will tackle the challenges and the opportunities created by the increasing availability of massive amount of data in different fields of application, from health to mobility, from automation to environmental protection, from the design and operation of infrastructures to strategic investments. These data scientists will be able to capture the relevant aspects of phenomena at play in the specific domain knowledge under study, to develop adequate models, to supervise the development of analytic pipelines, to critically analyze the results, and to support the technological transfer.

Specifically, the primary focus of the PhD program in Data Analytics and Decision Science lies in data

science. This entails the capacity to analyze massive datasets of high quality derived from diverse and varied sources of data, and to employ the most appropriate methodologies to extract valuable insights and address practical challenges across various application domains. For this purpose, methods and approaches for data retrieval, fusion, and integration are explored in depth, along with analysis strategies tailored to address both well-defined and complex problems.

At a broader level, a key skill developed during the Ph.D. programme is the ability to effectively transfer the knowledge generated, adapting it to the specific context, audience, and communication setting. This ability enables Ph.D. graduates to work efficiently in teams and to disseminate their research findings both within their field of expertise and to wider, more diverse audiences.

Throughout the Ph.D. journey, the programme aims to equip all candidates with technical communication skills, both oral and written, that can be adjusted depending on the intended audience, whether academic or non-academic. This objective is pursued through the training offered by the PhD School, which includes courses in Technical Communication. Additionally, candidates engage in activities that promote experiential learning ('learning by doing'), a fundamental aspect of doctoral education.

4. Professional opportunities and job market

Data Analytics and Decision Sciences graduates are equipped with unique skills and advanced knowledge that open up career opportunities at universities, international research centers and institutions, R&D departments, regulatory authorities, financial institutions, tech companies, consulting companies, and other public bodies.

Specifically, the main, but not unique, pillars of the DADS's PhD programme are:

- Data Science for healthcare domain
- Data Science for industry and technology development
- Data Science for mobility and urban sustainability
- Data Science for management, economics and finance

5. Enrolment

5.1 Admission requirements

Italian and International citizens can apply. They are requested to have graduated in accordance with the pre-existing laws D.M. 3.11.1999 n. 509, or to have a Master of Science degree in accordance with D.M. 3.11.1999 n. 509, or a Master of Science in accordance with D.M. 22.10.2004 n. 270, or similar academic title obtained abroad, equivalent for duration and content to the Italian title, with an overall duration of university studies of at least five years. The certified knowledge of the English language is a requirement for admission. Please refer to the Ph.D. School website for details. Admission to the programme will be established according to the evaluation of the candidate's curriculum and an illustrative report about the development of a possible PhD research, which the candidate will send

contextually with their application to the admission announcement.

5.2 Admission deadlines and number of vacancies

The number of positions is indicated in the Call for admission to the 41st PhD cycle programmes: http://www.polimi.it/phd

Scholarships on specific themes are available, in accordance with what is specified in the call for admission. Each year full scholarships are available for oriented research topics. Financial support for oriented topics is provided by private companies and research institutions like the Health Data Science Center at Human Technopole, Leonardo S.p.A, Polis-Lombardia. Annual support is also available for research periods abroad and to attend conferences.

6. Contents

6.1 Requirements for the PhD title achievement

The achievement of the PhD title in Data Analytics and Decision Sciences requires a study and research activity of at least three years equivalent of full-time study, research and development of a PhD thesis. PhD candidates in Data Analytics and Decision Sciences must earn a minimum of 30 course credits (see paragraph 6.3 below), and continuously conduct studies and research.
At the beginning of the course, the Faculty Board assigns one tutor to each PhD candidate to supervise and assist them in the overall training programme. The tutor shall be a professor belonging to the Faculty Board. The tutor assists the candidate in the choice of courses to be included in the study plan, which is eventually submitted for approval to the Coordinator of the PhD Programme (see also section 6.4 below). If necessary to enhance their preparation in specific topics relevant to their research projects, the Faculty Board has the authority to allocate additional course credits to one or more candidates. Candidates will be asked to demonstrate knowledge of the Italian language, equal to at least the A1 level of the Common European Framework of Reference for the knowledge of languages. This requirement is needed to register for the final exam. Italian native speakers and all those who can demonstrate knowledge of the Italian language to the required level will be exempt.

6.2 Research development

The main aim of Politecnico di Milano PhD programmes is the development in the candidates of a research-oriented mind-set, with expertise and skills in a specific research topic. To this end, candidates develop a problem-solving capability in complex contexts, including the ability to perform deep problem analysis, identify original solutions, and evaluate their applicability in practical contexts. These skills provide the PhD candidates with major opportunities of development in their research, both in the academic field and in public and private organizations. PhD candidates are requested to develop an original research contribution. The PhD thesis must thus contribute to increase the knowledge in the candidate's research field. Besides, it must be coherent with the research topics developed in the Departments where the PhD Programme is carried out. The original research results are collected in the PhD thesis, where the candidate's contribution is put in perspective with respect to the research state of the art in the specific research field.

The PhD research is developed under the guidance of two supervisors, who support the candidate in the thesis setting-out and in the everyday activities related to the thesis development. At least one of the supervisors must belong to the Politecnico di Milano. The other one may belong to an institution different from the Politecnico di Milano. These supervisors can be supported by an additional co-supervisor. Further activities intended to develop the candidate's personal skills and research expertise are encouraged during the PhD path. Candidates must acquire the capability to present and discuss their work in their research community. Consequently, both the participation to international conferences and the publication of the research results in peer-reviewed journals are encouraged. The PhD programme favors the candidates' research interactions with other groups in their research field, preferably abroad. Research visits of at least three months are strongly encouraged, as through them the candidates may acquire further skills to develop their research work and thesis.

6.3 Objectives and general framework of the teaching activities

The PhD Programmes and the PhD School activate teaching forms of different kind and credit value, including courses, seminars, project workshops, laboratories. Teaching activities encompass fundamental research topics, including problems, theories, and methods, which form the cornerstone of the PhD Programme, defining its cultural stance. Additionally, they delve into specialized research topics related to the issues explored in the theses, providing in-depth understanding.

Lessons are held in English. Structured teaching activities allow to earn ECTS credits. Other specialized activities, which often pose challenges in assessing learning outcomes and quantifying them, are considered as part of the scientific endeavors by the Faculty Board during the annual evaluation. However, they do not contribute to earning ECTS credits.

Courses

A. The PhD Programme in Data Analytics and Decision Sciences organizes the three **Characterising Mandatory Courses** listed in Table A that must be completed by the end of the first year.
B. Up to 5 credits can be obtained by choosing among courses provided by other PhD programmes at Politecnico di Milano or external Institutions. These courses must be agreed in advance with the tutor and can be chosen according to the specific scientific domain the candidate is specializing in. A tentative list of pre-approved courses is listed in Table B.
C. The PhD School organizes every year general and inter-doctoral courses: the acquisition of **at least 10 credits** among these courses is **mandatory**. The PhD courses organized by the PhD School are listed in Table C.

The table below summarizes the candidate's coursework path. At the same time, the programme foresees that the candidates remain continuously engaged in research activities, under the guidance of their supervisors and of the Faculty Board.

First/Second Year

Courses	Details or Reference	Number of credits (min-max)	Note
Courses characterizing the PhD Programme	See Table A	15-20	
Other PhD courses	See Table B Summer/Winter Schools Reading Courses Elective Ph.D. courses	0-5	To be agreed in advance with the tutor
PhD School Courses	See table C and PhD School website	10	

Third year

The third year should be devoted entirely to the research and to the development of the PhD thesis.

Courses characterizing the DADS programme

DADS characterizing courses activated for the 2025-2026 Academic Year are listed in the following table:

Table A: DADS characterizing courses

SSD	Course title	Teacher	Language	Credits
IEGE-01/A	Analytics for Society	Andrea Flori	English	5
STAT-01/A	Advanced Statistical Learning for Complex Data	Francesca Ieva Alessandra Menafoglio	English	5
IINF-05/A	Interpretability and Explainability in Machine Learning	Daniele Loiacono	English	5

Courses provided by other PhD programmes

A tentative list of pre-approved courses offered by other PhD programmes at Politecnico di Milano is supplied by the following table:

Table B: Pre-approved and suggested cross-sectoral courses

Course title	Language	Credits
Advanced Deep Learning Models and Methods for 3D spatial data	English	5
Advanced Modelling in Signal Image and Data Analysis	English	5
AI Methods for Bioengineering Challenges	English	5
Biostatistics and Experimental Design	English	5
Introduction and Research Perspective on Business Process Mining	English	5
Mathematical and numerical foundations of scientific machine learning	English	5
Online Learning and Monitoring	English	5
Software Engineering for ML and ML for Software Engineering	English	5

PhD School courses

The Ph.D. School of Politecnico di Milano offers courses designed to develop soft and transferable skills in Ph.D. candidates. These skills and competencies are intended to support candidates throughout various stages of their careers, enabling them to adapt to the rapidly evolving demands of the global economy and society.

More specifically, each candidate is required to gain experience in all three of the following modes of technical-scientific communication:

1. Oral presentation to experts in the field and subject matter – This mode focuses on developing the ability to communicate advanced content within a limited time frame, highlighting the key aspects of one's research or project, and justifying methodological choices before an audience with strong evaluative expertise. This skill, essential for sharing projects among peers, is acquired by participating in at least one conference, congress, or workshop where the candidate presents their research findings.
2. Oral presentation to professionals in the field who are not subject matter experts – This mode aims to convey research or project content with an appropriate level of depth, without strict time constraints. It is designed to develop the ability to communicate research findings to non-expert collaborators. This skill is acquired by participating in structured training activities with predefined objectives, such as academic or corporate training sessions.
3. Written communication targeted at a community of experts – This mode focuses on developing the ability to structure a document that, while shorter than a book or dissertation, still provides a comprehensive level of technical-scientific detail. This type of communication, typical of internal reports, is practiced by writing at least one scientific article for an international journal in the candidate's field of research.

As a requirement, each candidate must present as a speaker at at least one international congress or workshop, participate in at least one training activity, and publish at least one scientific article in an international journal.

The PhD School courses activated for the 2025-2026 Academic Year are listed in the following table:

Table C: PHD School courses

Course title	Teacher	ECTS
ADVANCED INTERACTION SKILLS FOR ACADEMIC PROFESSIONALS	ARNABOLDI MICHELA	5
COMMUNICATION STRATEGIES THAT SCORE IN WORLDWIDE ACADEMIA	CONCI CLAUDIO	5
CREATIVE DESIGN THINKING	CANINA MARIA RITA	5
DIGITAL HUMANISM	SCHIAFFONATI VIOLA	5
ENGLISH FOR ACADEMIC COMMUNICATION	BISCARI PAOLO	5
ETHICAL ASPECTS OF RESEARCH ON DUAL-USE TECHNOLOGIES	MASARATI PIERANGELO	5
ETHICS OF ARTIFICIAL INTELLIGENCE	ROCCHI DANIELE	5
HOW TO SUPPORT COMPLEX DECISIONS: APPROACHES AND TOOLS	OPPIO ALESSANDRA	5
INDUSTRIAL SKILLS	BISCARI PAOLO	5

INNOVATIVE TEACHING SKILLS	BRUNETTO DOMENICO SAVIO	5
INTRODUCTION TO ACADEMIC RESEARCH	VOLONTE PAOLO GAETANO	5
LA COMUNICAZIONE NELLA SCIENZA	PAGANONI ANNA MARIA	5
POWER OF IMAGES AND VISUAL COMMUNICATION FOR RESEARCH DISSEMINATION	IAROSSI MARIA POMPEIANA	5
PRACTICING RESEARCH COLLABORATION	PIZZOCARO SILVIA LUISA	5
PROFESSIONAL COMMUNICATION	DI BLAS NICOLETTA	5
PROJECT MANAGEMENT (IN ACTION)	MANCINI MAURO	5
PROJECT MANAGEMENT BASICS	FUGGETTA ALFONSO	5
RECORDING WORK 4 BUILDING MEMORY: METHODS, PRACTICES, TOOLS, SKILLS TO MANAGE THE KNOWLEDGE	BOERI ELISA	5
RESEARCH COMMUNICATION. ISSUE MAPPING: EXPLORING PUBLIC DEBATES SURROUNDING ACADEMIC TOPICS	COLOMBO GABRIELE	5
RESEARCH SKILLS	BISCARI PAOLO	5
SCIENCE DIPLOMACY FOR RESEARCHERS. FILLING THE GAP BETWEEN SCIENCE AND POLICY WITHIN THE GLOBAL CHALLENGES	SHENDRIKOVA DIANA	5
SCIENCE, TECHNOLOGY, SOCIETY AND WIKIPEDIA	RAOS GUIDO	5
SCIENTIFIC / ACADEMIC ENGLISH: WRITING AND PRESENTING WITH AND WITHOUT THE SUPPORT OF LLMS	JACCHETTI EMANUELA	5
SCIENTIFIC COMMUNICATION IN ENGLISH	BISCARI PAOLO	5
STRENGTHENING CRITICAL SPATIAL THINKING	ARMONDI SIMONETTA	5
SULLA RESPONSABILITÀ ETICA DELLA TECNICA	OSSI PAOLO MARIA	5
SUSTAINABILITY METRICS, LIFE CYCLE ASSESSMENT AND ENVIRONMENTAL FOOTPRINT	LAVAGNA MONICA	5
TEACHING METHODOLOGIES, STRATEGIES AND STYLES	SANCASSANI SUSANNA	5
THE COPERNICUS GREEN REVOLUTION FOR SUSTAINABLE DEVELOPMENT	OXOLI DANIELE	5

Preparatory courses (if foreseen)

If useful or necessary, the Faculty Board of the PhD Programme may assign some extra-credits to the PhD candidate to be acquired to complete the training path. The credits acquired in this way will be considered as additional, in relation to the mandatory credits to be acquired with the PhD courses.

Specialistic courses, long-training seminars

The attendance of Specialist Courses, Workshops, Schools, Seminars cycles is strongly encouraged and (if these seminars, workshops are certified and evaluated) may permit to acquire credits according the modalities established by the Faculty Board and previous approval of the study plan submitted by the candidate. These courses and workshops can be inserted in the study plan, even if they are not evaluated (and therefore not qualified as credits), as optional “additional teaching”.

6.4 Presentation of the study plan

PhD candidates must submit a study plan, which may be revised periodically (approximately every three months), in order to adequate it to possible changes in the course list, or to needs motivated by the development of their PhD career. The study plan must be approved by the Coordinator, according to the modalities established by the Faculty Board.

6.5 Yearly evaluations

Candidates present their work to the Faculty Board once a year. In particular, candidates must pass an annual evaluation in order to be admitted to the following PhD year. The third-year evaluation establishes the candidate's admission to the final PhD defense.

As a result of each annual evaluation, the candidates who pass the exam receive an evaluation (A/B/C/D) and may proceed with the enrolment to the following year. Candidates who do not pass the exam are qualified either as “Repeating candidate” (Er) or “not able to carry on with the PhD (Ei)”. In the former case (Er), the candidate is allowed to repeat the PhD year at most once. The PhD scholarship – if any – is suspended during the repetition year. In the latter case (Ei) the candidate is excluded from the PhD Programme and loses the scholarship – if any. If the Faculty Board deems it appropriate to directly assign an exclusion evaluation (Ei) without requiring a repeat year, the request must be substantiated adequately and endorsed by the PhD School. After the final year, candidates who have achieved sufficient results but need more time to draw up their theses, may obtain a prorogation of up to 12 months, but these are not covered by the scholarship funding their PhD.

6.6 PhD thesis preparation

The main objective of the PhD career is the development of an original research contribution. The PhD thesis is expected to contribute to the advance of knowledge in the candidate's research field. The PhD study and research work is carried out, full time, during the three years of the PhD Programme. Stages or study periods in (Italian or International) companies or external Institutions may complete the candidate's preparation. The resulting thesis need to be coherent with the research developed in the Departments where the PhD programme is developed. The candidate is required to present an original thesis and engage in discussions with the pertinent research community regarding its contribution to the current state of research within the field. The PhD research is developed following the guidance of the supervisors, who support the candidate in the setting out and in the everyday activities regarding the thesis development. At the conclusion of the PhD studies, the Faculty Board evaluates the candidates. Candidates who receive a positive evaluation submit their theses to two external reviewers for refereeing. If the evaluation provided by the reviewers is positive (o after the revisions required by the external reviewers), the candidates defend their thesis in a final exam, in front of a Committee composed of three members (at least two of which must be external experts).

7. Laboratories, PhD Secretary Services

The secretary service of the PhD programme can be reached by at phd-dads@polimi.it

8. Internationalization and inter-sectoriality

Carrying out study and research activities at external laboratories is strongly recommended. Politecnico di Milano supports joint PhD paths with International Institutions, as well as Joint and Double PhD programmes. Further information is available on the PhD School website and on the PhD programme website. More specifically, the PhD programme in Data Analytics and Decision Sciences collaborates with the Health Data Science (HDS) Center of Human Technopole.

Engaging with and being exposed to non- academic sectors offer substantial advantages for doctoral candidates, as well as for industries focused on research and innovation-intensive employment. Direct exposure to the challenges and opportunities in non-academic sectors of the economy and society at large is fostered by networking, connectivity, inter-sectoral mobility and wide access to knowledge.

Attachment A1 – Ph.D. Programme Coordinator

Piercesare Secchi is Professor of Statistics at the Department of Mathematics, Politecnico di Milano, member of MOX, the departmental laboratory in modelling and scientific computing, and head of the faculty board of the Data Analytics and Decision Science PhD program of Politecnico di Milano. He was born in Milano, Italy, in 1962. In 1988 he received the Laurea cum Laude in Mathematics from the Università di Milano, in 1993 the Doctorate in Methodological Statistics from the Università di Trento and in 1995 the Ph.D. in Statistics from the University of Minnesota. From 1991 to 1997 he has been Assistant Professor in Statistics at the Università di Pavia while from 1998 to 2004 he has been Associate Professor in Probability at the Politecnico di Milano, where he became Full Professor of Statistics in 2005. From 2009 to 2016 he served as Director of the Department of Mathematics of the Politecnico di Milano; from 2011 to 2016 he has been a member of the Academic Senate of Politecnico di Milano and the Rector's delegate for clusters and consortia. During the last three decades, he has taught scores of courses in different areas of statistics and probability, at the bachelor, master and doctoral level; today he is in charge of two courses in Applied Statistics, respectively for the master programs in Mathematical Engineering and in Management Engineering at Politecnico di Milano, whereas every other year he teaches a course in Statistical Inference in the Computer Era for the doctoral program in Data Analytics and Decision Sciences at Polimi. He has been the thesis advisor of many master students graduating in Economics, Mathematics, Mathematical Engineering and Management Engineering, as well as many doctoral students in Statistics. His recent research interests focus on statistical methods for object oriented spatial statistics, classification of complex data, functional data analysis, data fusion and integration. He is member of the Società Italiana di Statistica, of the Institute of Mathematical Statistics and of the American Statistical Association. He joined many different important research projects both privately and publicly funded. He coordinated the statistical unit within the Aneurisk Project, financed by Siemens Medical Solutions and Fondazione Politecnico, for the functional data analysis of inner carotid centrelines aiming at the evaluation of aneurysms rupture risk. He directed the research activity sponsored by the Italian Regulatory Authority for Electricity and Gas (AEEG) for the development of statistical models and methods aiming at quality of service evaluation and control in energy distribution. He has been principal investigator for different blue sky research projects financed by ENI, by Terna, by ATM and by Trenord at the Politecnico di Milano. He contributed to the development of Urbanscope, a new macroscope for the analysis of the digital traces generated by urban systems, and is now member of the Trespassing transdisciplinary research group at the Politecnico di Milano. He is among the founders of Moxoff, a spin-off of the Politecnico di Milano; since 2010 Moxoff employs mathematics, statistics, numerical analysis and advanced algorithms and software to develop scientific models for business. From 2011 to 2021 he has been member of the board of MIP, the Business School of the Politecnico di Milano. He has been member of the board of CISE in the years 2013-2018. From 2015 to 2019 he was President of the European Center for Nanomedicine (CEN). In 2017, he was part of the expert team Casa Italia, the mission structure of the Italian Government dedicated to prevention and security against natural risks. From 2017 to 2020 he has been coordinator for Polimi of the Center for Analysis, Decision and Society (CADS), a joint research center between Politecnico di Milano and the Human Technopole research infrastructure based in MIND, Milano.

Attachment A2 – Ph.D. Faculty Board

The Faculty Board is composed of the following professors at Politecnico di Milano:

Name	Affiliation	Scientific Disciplinary Sector
Secchi Piercesare (coordinator)	DMAT	STAT-01/A - Statistica
Azzone Giovanni	DIG	IEGE-01/A - Ingegneria Economico-Gestionale
Caiani Enrico Gianluca	DEIB	IBIO-01/A - Bioingegneria
Ceri Stefano	DEIB	IINF-05/A - Sistemi Di Elaborazione Delle Informazioni
Flori Andrea	DIG	IEGE-01/A - Ingegneria Economico-Gestionale
Ieva Francesca	DMAT	STAT-01/A - Statistica
Lanzi Pierluca	DEIB	IINF-05/A - Sistemi Di Elaborazione Delle Informazioni
Matteucci Matteo	DEIB	IINF-05/A - Sistemi Di Elaborazione Delle Informazioni
Orsenigo Carlotta	DIG	INFO-01/A - Informatica
Punzo Fabio	DMAT	MATH-03/A - Analisi Matematica
Roveri Manuel	DEIB	IINF-05/A - Sistemi Di Elaborazione Delle Informazioni
Spagnolini Umberto	DEIB	IINF-03/A - Telecomunicazioni
Tanelli Mara	DEIB	IINF-04/A - Automatica
Tubaro Stefano	DEIB	IINF-03/A - Telecomunicazioni
Tumino Angela	DIG	IIND-05/A - Impianti Industriali Meccanici
Vantini Simone	DMAT	STAT-01/A - Statistica

Attachment A3 – Ph.D. Advisory Board

The Advisory Board is composed of distinguished professionals from academia and industry, including:

- Ing. Elena Bottinelli – Head of Innovation and Digitalization at Gruppo San Donato
- Ing. Francesco Caio – Senior Executive in both public and private sectors
- Prof. Emanuele Di Angelantonio – Head of the Health Data Science Centre at Human Technopole