



**Politecnico  
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## Ranking List for the PhD program in Artificial Intelligence – Industry 40<sup>th</sup> Cycle

Total number of positions available: 30

PhD positions with scholarships with own research topics: 0

Number of positions without scholarship: 0

Total number of positions reserved to boursaries of Governments or by national or foreign public bodies: 0

Summary tab of scholarships available:

1	Ateneo/DET - Silicon photonics microrings for AI processing units	Theme-bound scholarship
1	CINECA - Human-centered AI for Educational Systems	Theme-bound scholarship
1	DAUIN / Integrating Silicon Photonics with Neuromorphic Computing for Enhanced Low-Power AI-Based Edge-Computing Systems	Theme-bound scholarship
1	DM 629 PNRR - AI-ready institutional platform for the collaborative development and valorization of FAIR-by-design software	Theme-bound scholarship
1	DM 630/Fondazione Bruno Kessler - Machine-learning-enhanced single-photon detectors	Theme-bound scholarship
1	DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis	Theme-bound scholarship
1	DM 630/Fondazione ISI - Mathematical modeling and control - theoretical approaches to forecast and contain epidemic processes	Theme-bound scholarship
1	DM 630/Fondazione Links - Leveraging Quantum Machine Learning and Error Correction in Quantum Computing with novel technological platforms	Theme-bound scholarship
1	DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications	Theme-bound scholarship
1	DM 630/Masera Engineering Group - ARTificial Intelligence for STructural end Infrastructural design (ARTISTI)	Theme-bound scholarship
1	DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms	Theme-bound scholarship
1	DM 630/ST MicroElectronics - Design of Advanced Silicon Photonics Components for Datacom	Theme-bound scholarship

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1	DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation	Theme-bound scholarship
1	DM 630/Univ. Ca' Foscari/LARUS - Towards Trustworthy AI with Graphs	Theme-bound scholarship
1	DM 630/Univ. Politecnica delle Marche/Econova AI S.r.l. - Artificial Intelligence for Sustainability Assessment and Reporting for a Sustainable Future	Theme-bound scholarship
1	DM 629 PNRR Univ. di Padova/MUR - Machine learning for analysis and persuasive communication generation for virtual or physical agents in Industry 5.0	Theme-bound scholarship
1	DM 629 PNRR/UNIPISA/DISEG - AI-Based Data Registration System for an Advanced Infrastructure Management Platform	Theme-bound scholarship
1	DM 629/Transizioni - Artificial Intelligence and Material Science (AI+MS): a New Frontier for the Generation of Innovative and Green Materials	Theme-bound scholarship
1	DM 629PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices	Theme-bound scholarship
1	DM 630 UNIAQ/RADIOLABS - Integration of AI, automation and ICT technologies for application and testing of GNSS-based geolocation systems	Theme-bound scholarship
1	DM 630/Leonardo S.p.a. - AI-based virtual assistant with adjustable autonomy for aeronautic applications	Theme-bound scholarship
1	DM630/MESPAC S.r.l. - Advanced methods for processing and improving metocean variables from remote, in-situ and numerical sources	Theme-bound scholarship
1	DM630/Makr Shkr - Tackling the challenges for fully autonomous manipulators in unstructured daily-living environments	Theme-bound scholarship
1	INRIM - Anomaly detection and forecasting in time series: environmental and space applications	Theme-bound scholarship
1	PNRR/FAIR - Transferable and efficient learning across task, environment, and embodiment structures	Theme-bound scholarship
1	PNRR/SERICS - Enhancing Hardware Security in RISC-V Architecture through Artificial Intelligence	Theme-bound scholarship
1	PNRR/SERICS - Improving the security of embedded systems running AI applications	Theme-bound scholarship
1	PNRR/SERICS - Space-Aware Safety and Security of AI	Theme-bound scholarship
1	UNIBO - Optimizing the Execution of Deep Neural Networks on Edge SoCs using AI Compilers for Heterogenous Systems	Theme-bound scholarship
1	University of Ferrara - Enhancing Industry 4.0 with (Probabilistic) Process Mining	Theme-bound scholarship

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## SHORTLISTED CANDIDATES

User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F586121	94.5	University of Ferrara - Enhancing Industry 4.0 with (Probabilistic) Process Mining		University of Ferrara - Enhancing Industry 4.0 with (Probabilistic) Process Mining	
F521575	93.5	PNRR/SERICS - Space-Aware Safety and Security of AI		PNRR/SERICS - Enhancing Hardware Security in RISC-V Architecture through Artificial Intelligence	*Conditional admission
		PNRR/SERICS - Enhancing Hardware Security in RISC-V Architecture through Artificial Intelligence			
		DAUIN / Integrating Silicon Photonics with Neuromorphic Computing for Enhanced Low-Power AI-Based Edge-Computing Systems			
F587454	92.3	DM 630/Fondazione ISI - Mathematical modeling and control - theoretical approaches to forecast and contain epidemic processes		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis	
		INRIM - Anomaly detection and forecasting in time series: environmental and space applications			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F444378	91.3	CINECA - Human-centered AI for Educational Systems		CINECA - Human-centered AI for Educational Systems	*Conditional admission
F587916	91	DM 630/Fondazione ISI - Mathematical modeling and control - theoretical approaches to forecast and contain epidemic processes		DM 630/Fondazione ISI - Mathematical modeling and control - theoretical approaches to forecast and contain epidemic processes	
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F368998	90.5	DM 629/Transizioni - Artificial Intelligence and Material Science (AI+MS): a New Frontier for the Generation of Innovative and Green Materials		DM 629/Transizioni - Artificial Intelligence and Material Science (AI+MS): a New Frontier for the Generation of Innovative and Green Materials	

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F587815	89.7	PNRR/FAIR - Transferable and efficient learning across task, environment, and embodiment structures CINECA - Human-centered AI for Educational Systems DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis		PNRR/FAIR - Transferable and efficient learning across task, environment, and embodiment structures	
F584584	89.2	DM 630/Leonardo S.p.a. - AI-based virtual assistant with adjustable autonomy for aeronautic applications DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications PNRR/FAIR - Transferable and efficient learning across task, environment, and embodiment structures DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation		DM 630/Leonardo S.p.a. - AI-based virtual assistant with adjustable autonomy for aeronautic applications	*Conditional admission
F587792	88.8	PNRR/SERICS - Improving the security of embedded systems running AI applications PNRR/SERICS - Space-Aware Safety and Security of AI PNRR/SERICS - Enhancing Hardware Security in RISC-V Architecture through Artificial Intelligence UNIBO - Optimizing the Execution of Deep Neural Networks on Edge SoCs using AI Compilers for Heterogenous Systems		UNIBO - Optimizing the Execution of Deep Neural Networks on Edge SoCs using AI Compilers for Heterogenous Systems	Younger applicant prevails *Conditional admission

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F532918	88.8	DM629 PNRR Univ. di Padova/MUR - Machine learning for analysis and persuasive communication generation for virtual or physical agents in Industry 5.0 INRIM - Anomaly detection and forecasting in time series: environmental and space applications DM 630/Univ. Politecnica delle Marche/Econova AI S.r.l. - Artificial Intelligence for Sustainability Assessment and Reporting for a Sustainable Future DM 630/Univ. Ca' Foscari/LARUS - Towards Trustworthy AI with Graphs		DM 630/Univ. Politecnica delle Marche/Econova AI S.r.l. - Artificial Intelligence for Sustainability Assessment and Reporting for a Sustainable Future	Younger applicant prevails
F421824	88.8	DM 629PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices		DM 629PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices	Younger applicant prevails
F399309	88.8	DM 630/Leonardo S.p.a. - AI-based virtual assistant with adjustable autonomy for aeronautic applications DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis		DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications	Younger applicant prevails *Conditional admission
F587917	88.8	DM 630 UNIAQ/RADIOLABS - Integration of AI, automation and ICT technologies for application and testing of GNSS-based geolocation systems		DM 630 UNIAQ/RADIOLABS - Integration of AI, automation and ICT technologies for application and testing of GNSS-based geolocation systems	

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F588301	88.2	DM 629 PNRR - AI-ready institutional platform for the collaborative development and valorization of FAIR-by-design software CINECA - Human-centered AI for Educational Systems		DM 629 PNRR - AI-ready institutional platform for the collaborative development and valorization of FAIR-by-design software	*Conditional admission
F586572	88	INRIM - Anomaly detection and forecasting in time series: environmental and space applications DM 630/Leonardo S.p.a. - AI-based virtual assistant with adjustable autonomy for aeronautic applications DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis		DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation	Younger applicant prevails *Conditional admission
F356114	88	DM 629 PNRR Univ. di Padova/MUR - Machine learning for analysis and persuasive communication generation for virtual or physical agents in Industry 5.0 DM629PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis		DM 629 PNRR Univ. di Padova/MUR - Machine learning for analysis and persuasive communication generation for virtual or physical agents in Industry 5.0	*Conditional admission

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F567848	87.8	PNRR/SERICS - Space-Aware Safety and Security of AI		PNRR/SERICS - Space-Aware Safety and Security of AI	*Conditional admission
		PNRR/SERICS - Enhancing Hardware Security in RISC-V Architecture through Artificial Intelligence			
		DAUIN / Integrating Silicon Photonics with Neuromorphic Computing for Enhanced Low-Power AI-Based Edge-Computing Systems			
F522457	87.5	DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications		DM630/Makr Shkr - Tackling the challenges for fully autonomous manipulators in unstructured daily-living environments	*Conditional admission
		PNRR/FAIR - Transferable and efficient learning across task, environment, and embodiment structures			
		DM630/Makr Shkr - Tackling the challenges for fully autonomous manipulators in unstructured daily-living environments			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F584942	87	DM 629PNRR/DAUIN - AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices		DM 629 PNRR/UNIPISA/DISEG - AI-Based Data Registration System for an Advanced Infrastructure Management Platform	Younger applicant prevails
		DM 630/Univ. Politecnica delle Marche/Econova AI S.r.l. - Artificial Intelligence for Sustainability Assessment and Reporting for a Sustainable Future			
		PNRR/FAIR - Transferable and efficient learning across task, environment, and embodiment structures			
		DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation			
		DM630/Makr Shkr - Tackling the challenges for fully autonomous manipulators in unstructured daily-living environments			
		DM629 PNRR/UNIPISA/DISEG - AI-Based Data Registration System for an Advanced Infrastructure Management Platform			

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F552987	87	PNRR/SERICS - Improving the security of embedded systems running AI applications		PNRR/SERICS - Improving the security of embedded systems running AI applications	*Conditional admission
F580715	86.8	DM 630/Fondazione Bruno Kessler - Machine-learning-enhanced single-photon detectors Ateneo/DET - Silicon photonics microrings for AI processing units DM 630/ST MicroElectronics - Design of Advanced Silicon Photonics Components for Datacom		DM 630/ST MicroElectronics - Design of Advanced Silicon Photonics Components for Datacom	*Conditional admission
F493442	86	INRIM - Anomaly detection and forecasting in time series: environmental and space applications DM 630/Univ. Politecnica delle Marche/Econova AI S.r.l. - Artificial Intelligence for Sustainability Assessment and Reporting for a Sustainable Future DM630/Leonardo S.p.a. - AI-based virtual assistant with adjustable autonomy for aeronautic applications DM 630/Univ. Ca' Foscari/LARUS - Towards Trustworthy AI with Graphs DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis		INRIM - Anomaly detection and forecasting in time series: environmental and space applications	Younger applicant prevails *Conditional admission
F465902	86	Ateneo/DET - Silicon photonics microrings for AI processing units DAUIN / Integrating Silicon Photonics with Neuromorphic Computing for Enhanced Low-Power AI-Based Edge-Computing Systems DM 630/ST MicroElectronics - Design of Advanced Silicon Photonics Components for Datacom		Ateneo/DET - Silicon photonics microrings for AI processing units	*Conditional admission

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F554694	85.8	DM 629/Transizioni - Artificial Intelligence and Material Science (AI+MS): a New Frontier for the Generation of Innovative and Green Materials		DM630/MESPAC S.r.l. - Advanced methods for processing and improving metocean variables from remote, in-situ and numerical sources	*Conditional admission
		DM 630/Univ. Politecnica delle Marche/Econova AI S.r.l. - Artificial Intelligence for Sustainability Assessment and Reporting for a Sustainable Future			
		DM 630/MESPAC S.r.l. - Advanced methods for processing and improving metocean variables from remote, in-situ and numerical sources			
		DM630 UNIAQ/RADIOLABS - Integration of AI, automation and ICT technologies for application and testing of GNSS-based geolocation systems			
F588410	85.5	DM 630/Fondazione Links - Leveraging Quantum Machine Learning and Error Correction in Quantum Computing with novel technological platforms		DM 630/Fondazione Links - Leveraging Quantum Machine Learning and Error Correction in Quantum Computing with novel technological platforms	Younger applicant prevails *Conditional admission
F587626	84.2	DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications		DM 630/Univ. Ca' Foscari/LARUS - Towards Trustworthy AI with Graphs	*Conditional admission
		DM 630/Univ. Ca' Foscari/LARUS - Towards Trustworthy AI with Graphs			
		DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F588239	84	DM630/Leonardo S.p.a. - AI-based virtual assistant with adjustable autonomy for aeronautic applications		DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms	*Conditional admission
		DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms			
		CINECA - Human-centered AI for Educational Systems			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			

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F499512	83	DM 630/Fondazione Bruno Kessler - Machine-learning-enhanced single-photon detectors		DM 630/Fondazione Bruno Kessler - Machine-learning-enhanced single-photon detectors	Younger applicant prevails
F581406	80.7	DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms DM 630/Masera Engineering Group - ARTificial Intelligence for STructural end Infrastructural design (ARTISTI)		DM 630/Masera Engineering Group - ARTificial Intelligence for STructural end Infrastructural design (ARTISTI)	*Conditional admission

Winners with scholarships under **DM 629** and **DM 630** must proceed with online acceptance of the scholarship through the Apply procedure **no later than 25<sup>th</sup> September 2024**.

All candidates selected for a position must enroll online through the Apply procedure **from 8<sup>th</sup> October 2024 to 8<sup>th</sup> November 2024** and must make identification at the Ph.D. Unit from **18<sup>th</sup> October 2024 to 14<sup>th</sup> November 2024**.

#### ELIGIBLE CANDIDATES

User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F584201	85.7	DM 629 PNRR Univ. di Padova/MUR - Machine learning for analysis and persuasive communication generation for virtual or physical agents in Industry 5.0 DM 630/Fondazione ISI - Mathematical modeling and control - theoretical approaches to forecast and contain epidemic processes DM 629 PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F443209	85.5	DM629 PNRR/UNIPISA/DISEG - AI-Based Data Registration System for an Advanced Infrastructure Management Platform			*Conditional admission

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F584515	85	DM 630/Fondazione Links - Leveraging Quantum Machine Learning and Error Correction in Quantum Computing with novel technological platforms			
F353797	83.7	INRIM - Anomaly detection and forecasting in time series: environmental and space applications			*Conditional admission
		DM 629PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices			
		DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms			
		CINECA - Human-centered AI for Educational Systems			
		DM629 PNRR/UNIPISA/DISEG - AI-Based Data Registration System for an Advanced Infrastructure Management Platform			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F500350	83.5	DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F584742	83	INRIM - Anomaly detection and forecasting in time series: environmental and space applications			
		DM630/Leonardo S.p.a. - AI-based virtual assistant with adjustable autonomy for aeronautic applications			
		DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications			
		PNRR/FAIR - Transferable and efficient learning across task, environment, and embodiment structures			
		PNRR/SERICS - Space-Aware Safety and Security of AI			

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F411453	82.2	DM 630/Fondazione ISI - Mathematical modeling and control - theoretical approaches to forecast and contain epidemic processes			
		DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms			
		DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation			
		CINECA - Human-centered AI for Educational Systems			
		DM 629 PNRR/UNIPISA/DISEG - AI-Based Data Registration System for an Advanced Infrastructure Management Platform			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F588146	82				*Conditional admission
F587621	80.5	DM 630/Fondazione ISI - Mathematical modeling and control - theoretical approaches to forecast and contain epidemic processes			*Conditional admission
		DM 629PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices			
		DM 630/Univ. Ca' Foscari/LARUS - Towards Trustworthy AI with Graphs			
		DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F546126	80.2	INRIM - Anomaly detection and forecasting in time series: environmental and space applications			

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F585833	79.5	DM629PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices			
		DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications			
		DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms			
		PNRR/FAIR - Transferable and efficient learning across task, environment, and embodiment structures			
		DM 630/Makr Shkr - Tackling the challenges for fully autonomous manipulators in unstructured daily-living environments			
		DM 629 PNRR/UNIPISA/DISEG - AI-Based Data Registration System for an Advanced Infrastructure Management Platform			
		DM 630/Fondazione ISI - Large Language and Multi-modal Models for human behavior understanding and outbreak analysis			
F585385	78.7	DM 629PNRR/DAUIN -AI algorithms for the detection of REM sleep behavior disorder (RBD) via tachogram and other biosignals measured via wearable devices			
		DM 630/Leonardo S.p.A. - Procedural Learning from ego/exocentric video and multimodal signals for aeronautical applications			
		DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms			
		DM 630/Teoresi S.p.A. - Anomaly detection for road scene segmentation			
		DM 629 PNRR/UNIPISA/DISEG - AI-Based Data Registration System for an Advanced Infrastructure Management Platform			

**Nucleo Dottorato di Ricerca**

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F584882	75.5				
F552312	75	DM 630/Mista S.p.A. - Digital twin of industrial production based on AI algorithms			
		DM 629 PNRR - AI-ready institutional platform for the collaborative development and valorization of FAIR-by-design software			
		CINECA - Human-centered AI for Educational Systems			
F581335	69.5				
F566651	68				

#### Description of Notes field:

\* Conditional admission: because the Master Degree is not yet acquired. The eventual enrollment to a PhD program could take place only if the Master Degree is achieved within **31<sup>st</sup> October 2024**. The failure of achievement by the deadline would result in the irrevocable loss of the right to enroll.

Torino, 19/09/2024

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