







Bando di concorso per l'ammissione ai Corsi Ph.D. XL ciclo a.a. 2024/2025

Art. 1 (Posti a concorso)

La Scuola universitaria superiore IUSS Pavia, di seguito denominata "Scuola", bandisce n. 40 posti per l'ammissione al XL ciclo di dottorato. Nel presente bando sono indicati per ogni Corso Ph.D. i posti messi a concorso.

Corso	Coordinatore	n. posti
CLASSE DI SCIENZE UMANE E DELLA VITA		
PhD in COGNITIVE BRAIN SCIENCES	Prof.ssa Eleonora Catricalà	6
Sede convenzionata: Università degli Studi di Pavia		
PhD in SCIENZE BIOMOLECOLARI E BIOTECNOLOGIE	Prof. Federico Forneris	7
Sede convenzionata: Università degli Studi di Pavia		
In collaborazione con Philochem A.G.		
PhD in THE HUMAN MIND AND ITS EXPLANATIONS: LANGUAGE, BRAIN AND REASONING	Prof. Andrea Sereni	9
Sedi convenzionate: Università degli Studi di Milano e Scuola Normale Superiore		
PhD in THEORETICAL AND EXPERIMENTAL LINGUISTICS	Prof.ssa Valentina Bambini	6
CLASSE DI SCIENZE TEC	NOLOGIE E SOCIETA'	
PhD in EARTHQUAKE ENGINEERING	Prof. Ricardo Monteiro	8
Sede convenzionata: Università degli Studi di Pavia		
In collaborazione con Fondazione Eucentre		









PhD in THE HADRON ACADEMY: RISK AND	Prof.ssa Annalisa Bonfiglio	6
COMPLEXITY IN HIGH TECH MEDICAL		
INNOVATION		
In collaborazione con Fondazione CNAO		

Le procedure concorsuali saranno formalmente chiuse alla conclusione dell'iter di accreditamento ministeriale.

Il numero dei posti potrà essere aumentato qualora venissero accertate, prima dell'inizio dei Corsi di dottorato, ulteriori disponibilità finanziarie.

La Scuola si riserva inoltre di assegnare ai candidati idonei presenti nelle graduatorie di merito le eventuali ulteriori borse che dovessero essere assegnate dal Ministero all'esito della procedura per la riallocazione delle risorse resesi disponibili ai sensi dell'art. 11 del DM 629/2024 e dell'art. 8 del DM 630/2024.

Art. 2

(Requisiti di ammissione al concorso)

Possono partecipare alla selezione, senza limitazioni di cittadinanza, i candidati in possesso dei seguenti titoli accademici:

- Diploma di laurea (vecchio ordinamento)
- Diploma di laurea specialistica/magistrale
- Analogo titolo accademico conseguito anche all'estero, equiparabile, per durata e contenuti, al titolo italiano e ritenuto idoneo ai fini della partecipazione al concorso.

Possono partecipare, altresì, alla selezione coloro che, alla data di scadenza del bando, non abbiano conseguito il titolo ma che lo conseguiranno entro il 31/10/2024.

Candidati con titolo conseguito in Italia

Tutti i candidati in possesso di titolo accademico conseguito presso un'Università italiana, siano essi cittadini comunitari o di Stati non appartenenti all'Unione Europea, sono tenuti ad autocertificare il titolo posseduto e sono ammessi alla selezione con riserva di verifica delle dichiarazioni autocertificate.

Candidati con titolo conseguito all'estero (Paesi UE e NON UE)

Tutti i candidati con titolo conseguito all'estero in Paesi NON UE sono tenuti a presentare copia legalizzata del diploma originale di laurea con traduzione se trattasi di lingua diversa da inglese/francese/spagnolo. L'ammissione al Corso di candidati con titolo estero conseguito in un Paese NON UE avviene in ogni caso sotto condizione della verifica del titolo posseduto effettuata sulla base della "Dichiarazione di valore in loco", rilasciata dalla Rappresentanza diplomatica italiana competente per territorio.

Tutti i candidati con titolo conseguito all'estero in Paesi UE sono tenuti a presentare il Diploma Supplement.









Art. 3

(Domanda di partecipazione al concorso)

La domanda di partecipazione al concorso, una per ogni corso Ph.D. al quale si intende partecipare, deve essere compilata ed inviata a partire dal **31 maggio 2024 ore 13:00 CET** esclusivamente per via telematica utilizzando l'apposita procedura presente nella sezione dedicata del sito al link https://iusspavia.esse3.cineca.it entro la data indicata nelle singole schede dei Corsi Ph.D. allegate al presente bando e parte integrante di esso.

Nella domanda è fatto obbligo ai candidati di dichiarare sotto la propria responsabilità:

- a) il cognome, il nome, il luogo e la data di nascita, la cittadinanza;
- b) il possesso del titolo accademico di cui al precedente art. 2 con l'indicazione del corso di laurea, della sua durata e dell'Università o Istituto di Istruzione Universitaria dove è stato conseguito;
- c) la votazione riportata nell'esame di Laurea magistrale/specialistica con indicazione della votazione massima conseguibile e la data di conseguimento della stessa;
- d) la data in cui si prevede di conseguire il titolo per coloro che non ne siano ancora in possesso;
- e) il curriculum prescelto, ove il Corso preveda più curricula;
- f) il domicilio o il recapito presso il quale desiderano siano trasmesse le comunicazioni relative al concorso e l'impegno a comunicare le eventuali variazioni di indirizzo;
- g) l'indirizzo e-mail, obbligatorio per le comunicazioni relative al concorso.

Possono avvalersi dell'autocertificazione:

- i cittadini italiani e comunitari;
- i cittadini di Stati non appartenenti all'Unione Europea, regolarmente soggiornanti in Italia, limitatamente alle qualità personali e ai fatti certificabili o attestabili da parte di soggetti pubblici italiani.

I candidati con disabilità potranno, nel compilare la domanda per la partecipazione al concorso, richiedere l'ausilio necessario per lo svolgimento dello stesso, in relazione al proprio handicap, nonché l'eventuale necessità di tempi aggiuntivi.

Alla domanda, a pena di esclusione, dovranno essere allegati un documento di identità in corso di validità alla data di scadenza del bando e il documento attestante il possesso del titolo accademico di cui al precedente art. 2 (come indicato nelle singole schede dei Corsi Ph.D).

La Scuola può, in qualunque momento del procedimento, anche successivamente all'avvio dei Corsi, effettuare controlli sulla veridicità delle dichiarazioni e dei documenti prodotti e richiedere l'esibizione dei documenti in originale. In caso di false dichiarazioni, la Scuola potrà disporre in ogni momento, con provvedimento motivato del Rettore, l'esclusione dei candidati dalla procedura selettiva o dal Corso, fatte salve le responsabilità penali da ciò derivanti.

Art. 4

(Commissione di selezione e prove di esame)









Le Commissioni esaminatrici per l'ammissione ai Corsi Ph.D. sono nominate dal Rettore con proprio decreto e la loro composizione è consultabile all'Albo della Scuola. Le modalità e i criteri di selezione e valutazione dei candidati ai fini della formazione delle graduatorie sono indicati nelle schede allegate. Le modalità di svolgimento delle prove saranno comunicate ai candidati interessati con congruo preavviso.

Art. 5

(Ammissione al Corso Ph.D. e ingresso degli allievi)

I candidati risultati vincitori sono ammessi al Corso Ph.D. secondo l'ordine della graduatoria di merito fino alla concorrenza dei posti messi a bando. Le graduatorie generali di merito, approvate con decreto del Rettore, sono pubblicate all'Albo della Scuola. La pubblicazione ha valore di comunicazione ufficiale. In caso di parità nella valutazione, la precedenza è riconosciuta al candidato più giovane.

La Scuola si riserva di assegnare eventuali posti, che si siano resi disponibili a seguito di rinuncia o abbandono, ai candidati risultati idonei secondo l'ordine di graduatoria, entro la data di inizio del programma di dottorato.

L'inizio dei Corsi Ph.D. è il 1 ottobre 2024.

Per entrare in Italia, gli allievi cittadini NON UE devono richiedere il visto a fini di studio utilizzando apposita procedura tramite <u>portale Universitaly</u>. Una volta arrivati in Italia, gli allievi sono tenuti a presentare entro otto (8) giorni, domanda di permesso di soggiorno a fini di studio.

Per ulteriori informazioni consultare la pagina: <a href="https://www.iusspavia.it/it/terza-missione/internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionalizzazione/mobilita-internazionale-incoming/studenti-internazionale-internaz

I candidati collocati in posizione utile devono provvedere all'immatricolazione entro la data indicata nella comunicazione di ammissione, pena la perdita del diritto all'iscrizione al dottorato.

Ai fini dell'iscrizione i candidati ammessi dovranno trasmettere attraverso l'apposita procedura web i documenti necessari per l'immatricolazione, tra i quali:

- a) conferma dell'avvenuto pagamento elettronico della tassa regionale per il Diritto allo Studio;
- b) solo per i candidati che hanno conseguito il titolo di II livello all'estero: Dichiarazione di valore (o copia dell'avvenuta richiesta alle autorità competenti) oppure Diploma Supplement;
- c) solo per i candidati con titolo di II livello conseguito successivamente alla scadenza del bando ed entro e non oltre il 31/10/2024: certificato o autocertificazione di conseguimento del titolo di secondo livello con relativa votazione, data e luogo di ottenimento.

L'efficacia della selezione è subordinata alla conferma da parte del MUR dell'accreditamento per l'a.a. 2024/2025, come previsto dall'art. 5 del DM 226/2021.

In casi particolari e motivati, l'ingresso degli allievi in Italia può essere posticipato, di norma, per non oltre 30 giorni dall'inizio ufficiale del Corso.









Art. 6

(Borsa di studio e altri contributi)

Le borse di studio hanno la durata del Corso Ph.D. di riferimento e sono conferite per il primo anno e confermate previa delibera di ammissione all'anno successivo da parte del Collegio dei Docenti dei singoli Corsi.

L'importo annuale della borsa di studio è di Euro 16.243,00 al lordo degli oneri previdenziali, fatti salvi aggiornamenti di legge. La borsa di dottorato è esente dal pagamento dell'imposta locale sui redditi e sul reddito delle persone fisiche (IRPEF) ed è soggetta al versamento dei contributi previdenziali INPS a gestione separata nella misura di due terzi a carico dell'amministrazione e di un terzo a carico del dottorando.

Le borse non possono essere cumulate con altre borse di studio a qualsiasi titolo conferite, tranne quelle concesse da istituzioni nazionali o straniere, utili ad integrare con soggiorni all'estero l'attività di ricerca dello studente.

Non può beneficiare di borsa di dottorato chi ne abbia fruito in precedenza, anche se parzialmente.

Per i periodi di permanenza all'estero, autorizzati dal Collegio dei Docenti, la borsa può essere incrementata nella misura del 50%, per un periodo di norma pari a 6 mesi e, ad ogni modo, complessivamente non superiore a 12 mesi.

Inoltre, ai sensi dell'art. 9 del D.M. 226/2021, la Scuola metterà a disposizione di tutti gli allievi Ph.D. un budget annuale di importo non inferiore al 10% della borsa, da destinare alla copertura di spese per lo svolgimento di attività di ricerca in Italia e all'estero, secondo le modalità previste dal Regolamento interno.

La Scuola provvede ad assicurare gli allievi per l'intera durata del corso per infortuni e per responsabilità civile.

Art. 7

(Borse di studio PNRR)

In attuazione del Piano Nazionale di Ripresa e Resilienza (PNRR), nell'ambito della Missione 4 Componenti 1 e 2, il Ministero dell'Università e della ricerca ha assegnato agli Atenei, attraverso i Decreti Ministeriali n. 629 e n. 630 del 24 aprile 2024, risorse per il finanziamento di borse di dottorato a valere sul XL ciclo per percorsi dedicati a:

- Transizioni Digitali e Ambientali;
- Tematiche Ricerca PNRR;
- Pubblica Amministrazione;
- Dottorati Innovativi.

La Scuola ha selezionato i progetti di ricerca da attivare nell'ambito dei corsi di dottorato del XL ciclo, in coerenza con i criteri di ammissibilità definiti dai suddetti Decreti, come riportati nel presente bando con l'etichetta PNRR.

Al termine delle procedure concorsuali, i candidati e le candidate assegnatari delle borse di cui al DM n. 629 e n. 630 dovranno provvedere all'immatricolazione secondo quanto stabilito all'art. 5.









A fine del perfezionamento della procedura di assegnazione delle borse, il MUR procederà alla verifica di ammissibilità al sostegno del PNRR dei progetti e l'ANVUR alla verifica della coerenza con i requisiti definiti nei citati Decreti. L'ammissione al corso di dottorato per i dottorandi e le dottorande assegnatari delle borse di cui al DM 629 e al DM n. 630 è da considerarsi pertanto sotto condizione della positiva verifica di coerenza e di ammissibilità e dell'assegnazione del finanziamento ministeriale.

L'accettazione delle borse di studio etichettate come PNRR comporta obblighi aggiuntivi rispetto a quelli previsti nel Regolamento per i Corsi di dottorato della Scuola, in particolare:

- produrre con cadenza semestrale un report recante l'indicazione dell'impegno temporale e una sintesi delle principali attività svolte;
- per le borse PNRR DM n. 629 "Ricerca PNRR": trascorrere un periodo di studio e ricerca all'estero da un minimo 6 ad un massimo di 12 mesi;
- per le borse PNRR DM n. 629 "Pubblica Amministrazione": trascorrere un periodo di studio e ricerca all'estero da un minimo 6 ad un massimo di 12 mesi e periodi di studio e ricerca in Pubbliche Amministrazioni, imprese o centri di ricerca da un minimo di 6 ad un massimo di 12 mesi;
- per le borse PNRR DM n. 629 "Transizioni digitali e ambientali": trascorrere un periodo di studio e ricerca all'estero da un minimo di 6 ad un massimo di 12 mesi e un periodo di studio e ricerca in impresa o centro di ricerca da un minimo di 6 ad un massimo di 12 mesi.
- per le borse PNRR DM n. 630 "Dottorati innovativi": trascorrere un periodo di studio e ricerca all'estero da un minimo di 6 ad un massimo di 12 mesi e un periodo di studio e ricerca in impresa da un minimo di 6 ad un massimo di 18 mesi.

Nei casi di mancato rispetto del periodo minimo in impresa e all'estero e di mancato rispetto degli obblighi di rendicontazione, la Scuola IUSS si riserverà la possibilità di revocare la borsa di studio. I percorsi di dottorato finanziati nell'ambito del DM 629 e DM 630 devono essere avviati entro il 13 dicembre 2024.

Art. 8

(Obblighi dello studente Ph.D.)

Gli allievi e le allieve si impegnano ad osservare le norme contenute nello Statuto, nei Regolamenti e nel Codice Etico e di comportamento della Scuola.

Il Rettore
Prof. Riccardo Pietrabissa

Responsabile del Procedimento:









Dott.ssa Giovanna Spinelli, Responsabile Area Didattica, Qualità e Servizi agli allievi— Palazzo del Broletto, Piazza della Vittoria n. 15 – 27100 Pavia – tel. +39 0382375811, fax +39 0382375899, e-mail: info@iusspavia.it.

Trattamento dati:

Ai sensi della normativa in materia di protezione dei dati personali (D. Lgs. 196/2003 e ss.mm.ii nonché dell'art. 13 del Regolamento (UE) 2016/679) la Scuola Universitaria Superiore IUSS, in qualità di Titolare

(con sede con sede in Piazza della Vittoria, 15, 27100 Pavia PV – PEC direzione@pec-iusspavia.it) informa che il trattamento dei dati personali, raccolti presso gli uffici amministrativi della Scuola IUSS, è finalizzato all'espletamento del concorso e dell'eventuale procedimento di gestione della carriera accademica dei vincitori; avverrà nel rispetto delle condizioni di liceità previste dal Regolamento (UE) 2016/679, da parte di personale autorizzato, con l'utilizzo di procedure anche informatizzate, nei modi e nei limiti necessari per perseguire le predette finalità. I dati saranno trattati in conformità al principio di necessità del trattamento e saranno conservati in conformità alle norme sulla conservazione della documentazione amministrativa. Il conferimento di tali dati è necessario per valutare i requisiti di partecipazione e il possesso dei titoli e la loro mancata indicazione può precludere tale valutazione, con conseguente esclusione dalla procedura. Le graduatorie saranno pubblicate secondo la normativa vigente. I dati potranno essere comunicati alle amministrazioni pubbliche direttamente interessate alla posizione giuridico-economica del candidato positivamente valutato e a tutti quei soggetti pubblici ai quali, in presenza dei relativi presupposti, la comunicazione è prevista obbligatoriamente. Gli interessati hanno il diritto di ottenere dalla Scuola Universitaria Superiore IUSS, nei casi previsti, l'accesso ai dati personali e la rettifica o la cancellazione degli stessi o la limitazione del trattamento che li riguarda o di opporsi al trattamento (artt. 15 e ss. del Regolamento). L'apposita istanza è presentata al Titolare. Ulteriori informazioni sono disponibili al seguente link: https://www.iusspavia.it/it/protezione-dati- personali

Amministrazione trasparente:

La Scuola universitaria superiore IUSS Pavia opera nel rispetto della normativa relativa alla prevenzione della corruzione (L.190/2012) applicando le misure individuate nel Piano Integrato pubblicato nella sezione "Trasparenza" del sito istituzionale all'indirizzo: http://www.iusspavia.it.









PhD in COGNITIVE BRAIN SCIENCES

Coordinatrice	Prof.ssa Eleonora Catricalà
Coordinatrice	e-mail: eleonora.catricala@iusspavia.it
SSD	M-PSI/02; M-PSI/01; M-PSI/04; M-PSI/03; MED-26; L-LIN/01
Breve descrizione	Il Dottorato di Ricerca in Cognitive Brain Sciences è un programma triennale a tempo
DIEVE GESCHZIONE	pieno, convenzionato con l'Università degli Studi di Pavia.
	Il Dottorato è finalizzato alla formazione avanzata in un settore della ricerca
	neuroscientifica fortemente incentrato sulla comprensione dei processi neurali che
	sottendono le funzioni cognitive e il comportamento, nello sviluppo e
	nell'invecchiamento, sia in condizioni normali che nelle malattie neurologiche e
	psichiatriche, ed è fortemente orientato alla ricerca in un'ottica interdisciplinare.
	L'obiettivo è la formazione di una nuova generazione di neuroscienziate/i cognitive/i
	capace di sintetizzare concetti e metodi propri di discipline differenti in un approccio
	integrato allo studio del rapporto mente/cervello che consenta non solo di
	aumentare la competitività entro i tradizionali dipartimenti disciplinari, ma anche di
	promuovere il progresso nella ricerca di frontiera, e nel trasferimento delle
	conoscenze alle aree della Salute e dell'Educazione.
Lingua	Inglese
Durata	n. 3 anni
Posti a concorso	n. 6 posti a concorso di cui:
	- n. 2 posti finanziati da borsa IUSS sulla seguente tematica "Neuroscienze cognitive,
	cliniche e sperimentali". I progetti sono incentrati sulla comprensione della natura,
	dell'organizzazione e dei processi neurali che sottendono diversi aspetti del
	funzionamento cognitivo mediante studi comportamentali, di neurofisiologia,
	neurostimolazione e/o di neuroimmagine, in popolazioni sane, neurodegenerative o
	psichiatriche. Tra i temi caratterizzanti figurano: memoria, linguaggio, funzioni
	esecutive, decision-making, cognizione sociale e neuroscienze dell'alimentazione.
	- n. 1 posto co-finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR)
	DM 630/2024 - Investimento 3.3 – Dottorati innovativi che rispondono ai fabbisogni di innovazione delle imprese, sulla seguente tematica "Applicazione della
	stimolazione transcranica a correnti dirette ad alta definizione (HD-tDCS) alla
	neuroriabilitazione". La ricerca proposta mira allo sviluppo, e alla validazione in
	patologie neuro-psichiatriche, di innovativi trattamenti riabilitativi di
	neuromodulazione volti ad aumentare l'intensità/focalità dell'effetto della
	stimolazione elettrica a corrente diretta (tDCS) mediante protocolli ad alta
	definizione (HD-tDCS) personalizzati.
	Azienda coinvolta: ICS Maugeri;
	- n. 1 posto co-finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR)
	DM 630/2024 - Investimento 3.3 – Dottorati innovativi che rispondono ai fabbisogni
	di innovazione delle imprese, sulla seguente tematica "Profilo cognitivo e
	rappresentazione corporea nei disturbi dell'alimentazione e della nutrizione". La
	ricerca proposta ha l'obiettivo di indagare le caratteristiche dei profili cognitivi e le
	alterazioni della rappresentazione corporea in pazienti con diagnosi di disturbo della
	nutrizione e dell'alimentazione (DNA) e in popolazioni a rischio per lo sviluppo di









DNA. Azienda coinvolta: IPSI - Istituto Psicologico Italiano;

- n. 1 posto coperto dall'Università di Pavia e co-finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024 - Investimento 3.3 — Dottorati innovativi che rispondono ai fabbisogni di innovazione delle imprese sulla seguente tematica: "Studio comportamentale, anatomico e funzionale dei processi cognitivi ed emotivi in pazienti con epilessia farmacoresistente". La ricerca proposta ha l'obiettivo di sviluppare protocolli innovativi per lo studio comportamentale, anatomico e funzionale dei processi cognitivi ed emotivi in pazienti con epilessia farmacoresistente con l'utilizzo di tecnologie avanzate.

Azienda coinvolta: Ospedale Niguarda;

- n. 1 posto coperto dall'Università di Pavia a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024 - Investimento 3.3 – Dottorati innovativi che rispondono ai fabbisogni di innovazione delle imprese sulla seguente tematica: "Applicazione delle nuove tecnologie nella neuroriabilitazione di pazienti con difficoltà cognitive: un approccio neurobiologico integrato". La ricerca proposta ha come obiettivo di indagare come le nuove tecnologie (dispositivi digitali, teleriabilitazione, realtà virtuale, intelligenza artificiale) possono essere integrate nella riabilitazione delle difficoltà cognitive conseguenti a malattie che colpiscono direttamente o indirettamente il sistema nervoso centrale.

Azienda coinvolta: IRCCS Ospedale San Camillo.

Termini di presentazione della domanda online

01/07/2024, ore 13:00 CEST

Documentazione obbligatoria* da allegare alla domanda online

- a) copia formato pdf di un documento di identità in corso di validità;
- b) autocertificazione diploma di laurea magistrale (titolo di studio italiano o UE), o copia del diploma di laurea magistrale (titolo di studio NON UE);
- c) autocertificazione diploma di laurea triennale (titolo di studio italiano o UE), o copia del diploma di laurea triennale (titolo di studio NON UE);
- d) diploma supplement o certificato con voti del diploma di laurea magistrale;
- e) diploma supplement o certificato con voti del diploma di laurea triennale;
- f) autocertificazione del voto finale di laurea triennale e magistrale. Per gli studenti in possesso di titolo conseguito all'estero, si richiede inoltre il voto minimo per la sufficienza e il voto massimo nell'Università di provenienza (tramite la procedura telematica di candidatura).
- g) progetto di ricerca (consultare il sito IUSS per le linee guida).

caricamento nella domanda dei documenti di cui alle lettere a) e b) comporta l'esclusione dalla procedura concorsuale

*il mancato

Titoli valutabili

- a) diploma supplement o certificato con voti del diploma di laurea magistrale;
- b) autocertificazione della media aritmetica, a cura del candidato, dei voti conseguiti negli esami sostenuti durante il corso di laurea triennale e il corso di laurea magistrale. Per gli studenti in possesso di titolo conseguito all'estero, si richiede inoltre il voto minimo per la sufficienza e il voto massimo nell'Università di provenienza (tramite la procedura telematica di candidatura);
- c) eventuali pubblicazioni;
- d)progetto di ricerca (<u>consultare il sito IUSS per le linee guida</u>). <u>Il candidato o la candidata che intenda concorrere per più di una borsa è tenuto/a a presentare un progetto per ciascuna delle borse per cui si candida. È possibile esprimere fino ad un</u>









	massimo di tre preferenze sulle tematiche previste. (NB: è necessario inserire
	nell'intestazione del progetto la denominazione della borsa per cui si concorre).
	e) curriculum vitae et studiorum;
	f) eventuali referee (al massimo n. 3), di cui vengono indicati gli indirizzi e-mail
	istituzionali;
	g) eventuale lettera motivazionale.
Prove di esame	Titoli e Colloquio
	La selezione avverrà mediante la valutazione dei titoli elencati nella sezione "Titoli
	valutabili", punti da a) a f) inclusi, con l'assegnazione di un massimo di 50 su 100
	punti, e colloquio, per un massimo di 50 su 100 punti.
	La Commissione assegnerà pertanto, in centesimi, un punteggio da 1 a 100.
	1. La Commissione esaminatrice valuterà i titoli scientifici presentati assegnando una
	votazione in cinquantesimi. Saranno ammessi al colloquio i candidati che nella
	valutazione di cui sopra avranno conseguito un punteggio non inferiore a 36/50 .
	2. Il colloquio può essere espletato anche mediante strumenti di comunicazione
	telematica idonei a garantire l'identificazione del candidato. Il colloquio avrà ad
	oggetto una discussione sui titoli presentati, sull'esperienza del candidato nonché
	delle domande tecnico-scientifiche, con l'obiettivo di verificare la vocazione alla
	ricerca e le competenze del candidato. Saranno esclusi dalle graduatorie di merito i
	candidati che nel colloquio avranno ottenuto una votazione inferiore a 36/50 .
	<u>Durante il colloquio la Commissione accerta il possesso delle conoscenze</u>
	disciplinari di base necessarie per la frequenza del corso di dottorato e valuta
	l'idoneità del candidato rispetto a ciascuna delle Borse di studio per cui ha
	manifestato interesse in sede di candidatura, anche sulla base del/i progetto/i
	presentato/i.
	In sede di colloquio, previa autorizzazione da parte del candidato, la Commissione
	procederà a valutare inoltre l'idoneità del candidato o della candidata rispetto ad
	<u>ulteriori borse tematiche.</u>
	Qualora l'esito di tale valutazione fosse positivo, l'idoneità attribuita sarà presa in
	considerazione solo per le borse che non risultino assegnate all'esito dello
	scorrimento della graduatoria.
	3. La Scuola IUSS comunicherà, all'indirizzo e-mail indicato nella domanda,
	l'ammissione al Corso dei vincitori.
Calendario delle	L'esito della valutazione titoli sarà pubblicato all'Albo della Scuola.
prove	Le prove orali si svolgeranno presso la sede di Marelli o in modalità telematica (via
	Zoom) il giorno 22/07/2024 a partire dalle 09:00 (CEST)
Informazioni	U.O. Corsi PhD: e-mail postlaurea@iusspavia.it









PhD in SCIENZE BIOMOLECOLARI E BIOTECNOLOGIE

Coordinatore	Prof. Federico Forneris
Coordinatore	e-mail: federico.forneris@unipv.it
Area scientifica	Scienze Biologiche
SSD	BIO/11 CHIM/03 BIO/04 CHIM/08 MED/04 BIO/14 BIO/19 BIO/10
Breve descrizione	Il PhD in Scienze Biomolecolari e Biotecnologie è un programma congiunto con
bieve descrizione	l'Università degli Studi di Pavia di durata triennale a tempo pieno.
	Il Corso rappresenta un percorso formativo finalizzato all'attività di ricerca su temi in
	ambito biomedico e biotecnologico. Il corso di dottorato si configura con una
	spiccata connotazione di interdisciplinarità garantita dalla consolidata interazione tra
	i proponenti del Corso e dalla possibilità di accedere alla strumentazione scientifica
	presente nei vari laboratori e al bagaglio di esperienza dei singoli coordinatori dei
	gruppi.
Lingua	Inglese
Durata	3 anni
Posti a concorso	n. 7 posti a concorso di cui:
	- n. 2 posti finanziati con borsa IUSS
	- n. 1 posto co-finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR)
	DM 630/2024 - Investimento 3.3 – Dottorati innovativi che rispondono ai fabbisogni
	di innovazione delle imprese, sulla seguente tematica: Applicazioni delle
	Biotecnologie al Drug Discovery
	Azienda coinvolta: Philogen SpA
	- n. 1 posto dell'Università di Pavia e co-finanziato a valere sul Piano Nazionale di
	Ripresa e Resilienza (PNRR) DM 630/2024 - Investimento 3.3 – Dottorati innovativi
	che rispondono ai fabbisogni di innovazione delle imprese, sulla seguente tematica:
	Studio della risposta immunitaria innata contro i vettori della terapia genica nel
	sistema nervoso centrale
	Azienda coinvolta: Ospedale San Raffaele S.r.l.
	- n. 1 posto coperto dall'Università di Pavia e co-finanziato a valere sul Piano
	Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024 - Investimento 3.3 – Dottorati
	innovativi che rispondono ai fabbisogni di innovazione delle imprese, sulla seguente
	tematica: Produzione e caratterizzazione di proteine ricombinanti per migliorare la
	comprensione dei meccanismi di diffusione di patogeni trasmessi da vettori
	Azienda coinvolta: Fondazione INF-ACT
	- n. 1 posto coperto dall'Università di Pavia e finanziato a valere sul Piano Nazionale
	di Ripresa e Resilienza (PNRR) DM 629/2024 - Investimento 3.4 – Transizioni digitali e
	ambientali, sulla seguente tematica: <i>Enzymes for green and red biotechnologies</i>
	Ente coinvolto: Dipartimento Medicina di Precisione, Università degli studi della
	Campania "L. Vanvitelli"
	- n. 1 posto riservato a dipendenti dell'azienda Philochem AG
	1









Termini di	15/07/2024 oro 12:00 CEST
	15/07/2024, ore 13:00 CEST
presentazione	
della domanda online	
Documentazione	
obbligatoria* da	a) copia formato pdf di un documento di identità in corso di validità;
allegare alla	b) autocertificazione diploma di laurea magistrale (titolo di studio italiano o UE) o
domanda online	copia del diploma di laurea (titolo di studio NON UE);
*:/	c) curriculum vitae et studiorum
*il mancato caricamento nella domanda dei	d) diploma supplement o certificato con voti del diploma di laurea triennale
documenti di cui alle	e) diploma supplement o certificato con voti del diploma di laurea magistrale
lettere a) e b) comporta l'esclusione dalla	f) list of publications
procedura concorsuale	
Titoli valutabili	a) curriculum vitae et studiorum
	b) diploma supplement o certificato con voti del diploma di laurea triennale
	c) diploma supplement o certificato con voti del diploma di laurea magistrale
	d) pubblicazioni
	e) lettere di referenza (fino ad un massimo di due) con invio a cura dei referee,
	tramite la piattaforma web preposta entro la scadenza del bando.
Prove di esame	La selezione avverrà mediante la valutazione dei titoli elencati nella sezione "Titoli
	valutabili", punti da a) a e) inclusi, con l'assegnazione di un massimo di 50 su 100
	punti, e colloquio, per un massimo di 50 su 100 punti. La Commissione assegnerà
	pertanto, in centesimi, un punteggio da 1 a 100.
	1. La Commissione esaminatrice valuterà i titoli scientifici presentati assegnando una
	votazione in cinquantesimi. Saranno successivamente ammessi al colloquio i
	candidati che nella valutazione complessiva dei titoli di cui sopra avranno conseguito
	un punteggio non inferiore a 36/50 .
	2. Il colloquio può essere espletato anche mediante strumenti di comunicazione
	elettronica idonei a garantire l'identificazione del candidato. Il colloquio avrà ad
	oggetto una discussione sui titoli presentati e sulla attività di ricerca svolta e che si
	intende svolgere con l'obiettivo di verificare la vocazione alla ricerca. Saranno esclusi
	dalle graduatorie di merito i candidati che nel colloquio avranno ottenuto una
	votazione inferiore a 36/50 .
	Durante il colloquio la Commissione accerta il possesso delle conoscenze
	disciplinari di base necessarie per la frequenza del corso di dottorato e valuta
	<u>l'idoneità del/la candidato/a rispetto alle borse bandite.</u>
	3. La Scuola comunicherà, all'indirizzo e-mail indicato nella domanda, l'ammissione
	al Corso dei vincitori.
Calendario delle	L'esito della valutazione titoli sarà pubblicato all'Albo della Scuola dello IUSS entro il
prove	giorno 3/09/2024
	Le prove orali si svolgeranno il giorno 09/09/2024 dalle ore 09:30 presso la sede
	IUSS a Palazzo del Broletto, Piazza della Vittoria 15 o in modalità telematica (via
	Zoom).
Informazioni	e-mail: federico.forneris@unipv.it
	U.O. Corsi PhD: postlaurea@iusspavia.it









PhD in The Human Mind and its Explanations: Language, Brain and Reasoning (HuME)

Coordinatore	Prof. Andrea Sereni
Coordinatore	e-mail: andrea.sereni@iusspavia.it
SSD	M-FIL/01, M-FIL/02, M-FIL/03, M-FIL/05, M-PSI/01, M-PSI/05, MED/27, MED/34;
330	BIO/09, L-LIN/01, SECS-P/01
Breve descrizione	Nel corso dell'ultimo decennio l'Università degli Studi di Milano, la Scuola Normale di
	Pisa e lo IUSS di Pavia hanno sviluppato notevoli competenze e hanno prodotto ricerca di alto livello internazionale in ambiti disciplinari collegati tra loro, che
	spaziano dalla filosofia dalle mente e dalle teorie dal ragionamento alle scienze cognitive.
	Oggi più che mai la ricerca di frontiera richiede la capacità di integrare questo tipo di competenze. Per questa ragione il dottorato propone un'offerta formativa che
	preveda un forte background in ambito analitico ed epistemologico e che sappia coniugare riflessione teorica e pratica sperimentale, così da attrarre giovani
	ricercatori che intendano approfondire lo studio dei fondamenti della cognizione umana avvalendosi di un approccio multidisciplinare. Si tratta di un corso di
	dottorato che al momento non ha equivalenti nel panorama nazionale e che si prefigge di diventare un punto di riferimento a livello europeo.
	Dottorandi e dottorande sono formati/e sia consolidando e rafforzando le loro
	competenze nelle aree di studio originarie, sia offrendo loro gli strumenti teorici e
	sperimentali richiesti nelle aree rilevanti della filosofia e delle scienze pure e
	sperimentali, delle neuroscienze cognitive e della linguistica. L'obiettivo generale è
	favorire un approccio multidisciplinare che consenta agli studenti di promuovere
	ricerche originali e innovative nel loro campo specifico.
	Grazie all'aggregazione tra le sedi convenzionate, i dottorandi hanno a disposizione
	non solo una ampia rosa di corsi metodologici e teorici, ma anche un bacino di
	competenze diverse e complementari a cui di volta in volta attingere per rispondere alle domande al centro delle loro ricerche.
	Il corso promuove la formazione dei dottorandi e delle dottorande in un panorama
	internazionale a livello europeo e extra-europeo. A questo scopo, sono incentivati i
	periodi di studio presso università straniere, la partecipazione a convegni
	internazionali e le reti di collaborazioni scientifiche extra-nazionali, anche grazie alle
	collaborazioni con Centri di Ricerca internazionali attivate nel contesto del dottorato
	o delle attività dei docenti del Collegio. In coerenza con questa forte attenzione alla internazionalizzazione, la lingua inglese è utilizzata come lingua veicolare per tutti gli
	insegnamenti erogati nell'offerta didattico-formativa.
Lingua	Inglese
Durata	n. 3 anni
Posti a concorso	n. 9 posti, così suddivisi:
	- n. 2 posti finanziati dalla Scuola Universitaria Superiore IUSS Pavia
	- n. 3 posti finanziati dall'Università degli Studi di Milano
	- n. 1 posto finanziato dalla Scuola Normale Superiore di Pisa
	- n. 1 posto co-finanziato a valere sul Piano Nazionale di Ripresa e Resilienza
	(PNRR) DM 629/2024 - Investimento 4.1 – Ricerca PNRR, sulla seguente tematica
	Menti, soggetti e matematica
	menti, soggetti e matematica









	 n. 1 posto co-finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 629/2024 - Investimento 4.1 – Pubblica Amministrazione, sulla seguente tematica: "Disaccordo, pluralismo e fiducia: decisioni umane e uso della tecnologia nelle politiche pubbliche" Istituzione coinvolta: Scuola Nazionale dell'Amministrazione n. 1 posto coperto dall'Università degli studi di Milano e co-finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024 - Investimento 3.3 – Dottorati innovativi che rispondono ai fabbisogni di innovazione delle imprese, sulla seguente tematica: "Mitigating Bias and opacity Risks in generative AI" Azienda coinvolta: Alkemy
Termini di	1/07/2024 ore 13:00 (CEST)
presentazione	
della domanda	
online	
Documentazione	a) copia formato pdf di un documento di identità in corso di validità;
obbligatoria* da	b) autocertificazione diploma di laurea magistrale (titolo di studio italiano o UE), o
allegare alla	copia del diploma di laurea magistrale (titolo di studio NON UE);
domanda online	c) autocertificazione diploma di laurea triennale (titolo di studio italiano o UE), o
	copia del diploma di laurea triennale (titolo di studio NON UE);
	d) diploma supplement o certificato con voti del diploma di laurea magistrale;
*il mancato	e) diploma supplement o certificato con voti del diploma di laurea triennale;
caricamento nella domanda dei	f) progetto di ricerca (<u>consultare il sito IUSS per le linee guida</u>).
documenti di cui alle	g) l'autocertificazione della media aritmetica dei voti degli esami sostenuti nella
lettere a) e b)	laurea triennale e magistrale, con range di voti possibili (tramite la procedura
comporta l'esclusione dalla procedura	telematica di candidatura);
concorsuale	h) l'autocertificazione del voto finale di laurea con range dei voti possibili (tramite la
Titali valutahili	procedura telematica di candidatura).
Titoli valutabili	a) diploma supplement o certificato con voti del diploma di laurea magistrale;
	b) diploma supplement o certificato con voti del diploma di laurea triennale; c) curriculum vitae et studiorum:
	d) progetto di ricerca (consultare il sito IUSS per le linee guida)
	e) pubblicazioni;
	f) lettere di referenza (al massimo n. 2), con invio a cura dei referee, tramite la
	piattaforma web preposta, entro la data di scadenza del bando
Prove di esame	Titoli e Colloquio
	La selezione avverrà mediante la valutazione dei titoli elencati nella sezione "Titoli
	valutabili", con l'assegnazione di un massimo di 50 su 100 punti , e colloquio, per un
	massimo di 50 su 100 punti.
	La Commissione assegnerà pertanto, in centesimi, un punteggio da 1 a 100.
	1. La Commissione esaminatrice valuterà i titoli scientifici presentati assegnando una
	votazione in cinquantesimi. Saranno ammessi al colloquio i candidati che nella
	valutazione di cui sopra avranno conseguito un punteggio non inferiore a 36/50 .
	2. Il colloquio può essere espletato anche mediante strumenti di comunicazione
	telematica idonei a garantire l'identificazione del candidato. Il colloquio avrà ad
	oggetto una discussione sui titoli presentati, sull'esperienza del candidato nonché
	delle domande tecnico-scientifiche, con l'obiettivo di verificare la vocazione alla









ricerca e le competenze del candidato. Saranno esclusi dalle graduatorie di merito i candidati che nel colloquio avranno ottenuto una votazione inferiore a 36/50.

Durante il colloquio la Commissione accerta il possesso delle conoscenze disciplinari di base necessarie per la frequenza del corso di dottorato e valuta l'eventuale idoneità del candidato rispetto alle borse tematiche presenti a bando.

3. La Scuola IUSS comunicherà, all'indirizzo e-mail indicato nella domanda, l'ammissione al Corso dei vincitori.









PhD in THEORETICAL AND EXPERIMENTAL LINGUISTICS

Coordinatrice	Prof.ssa Valentina Bambini
Coordinatrice	e-mail: valentina.bambini@iusspavia.it
SSD	
Breve descrizione	L-LIN/01; M-PSI/01; M-PSI/02; MED/25; MED/27 Il Dottorato in Theoretical and Experimental Linguistics (TEL) è un programma di durata triennale a tempo pieno promosso dalla Scuola IUSS. Il corso rappresenta un percorso formativo finalizzato all'attività di ricerca nell'ambito della linguistica sia teorica sia sperimentale. In particolare, il corso si caratterizza elettivamente per studi in ambito di teoria della sintassi, pragmatica sperimentale e linguistica computazionale, nei doppi piani delle descrizioni formali e di quelle psicolinguistiche e più propriamente neurolinguistiche. La realizzazione dei progetti di ricerca si fonda anche su una rete di collaborazioni nazionali e internazionali promosse dalla Scuola IUSS, spesso a carattere fortemente interdisciplinare e che si rivolgono in particolare agli ambiti della psicologia e della medicina. Il corso promuoverà, in via preferenziale ancorché non esclusiva, ricerche incentrate sui seguenti ambiti, anche in interazione tra loro: Sintassi teorica Neurosintassi Storia del pensiero Linguistico Linguistica computazionale Corpora e modellizzazione linguistica Processing e complessità Disturbi del linguaggio Acquisizione del linguaggio Pragmatica Sperimentale Neuropragmatica Pragmatica clinica Pragmatica cinica Pragmatica cquisizionale
Lingua	Per ulteriori informazioni si veda il <u>sito IUSS</u> .
Lingua Durata	Inglese n. 3 anni
Posti a concorso	n. 6 posti, di cui: - n. 3 posti finanziati dalla Scuola IUSS La ricerca verterà su una o più delle tematiche inerenti al dottorato, con particolare
	riferimento a sintassi teorica (es. correlati configurazionali della connessione soggetto-predicato, frasi copulari, ruolo della simmetria e dei fenomeni di rottura di simmetria, lingue impossibili), sintassi sperimentale e neurosintassi (es. giudizi di grammaticalità, tempi di reazione, eye-tracking, tecniche di neurofisiologia o invasive), pragmatica sperimentale e neuropragmatica (metafora e linguaggio non letterale, anche all'interfaccia con la modallizzazione computazionale di dati comportamentali e neurali), pragmatica clinica e acquisizionale, disturbi del linguaggio (es. nelle psicosi e inclusi gli approcci NLP). - n. 1 posto finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 629/2024 - Investimento 4.1 – Pubblica Amministrazione, sulla seguente tematica:









Competenze linguistiche e comunicative in bambini e adolescenti con disagi sociali e altre popolazioni vulnerabili

La ricerca riguarderà lo studio delle abilità linguistiche e comunicative di bambini e adolescenti provenienti da realtà deprivate e con difficili situazioni familiari e altre popolazioni vulnerabili, mirando all'identificazione delle aree di maggiore difficoltà e di possibili strategie di intervento, e considerando anche l'impatto della comunicazione con il personale addetto alla cura e alla sorveglianza.

Ente coinvolto: Tribunale per i Minorenni di Milano

- n. 1 posto finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 629/2024 - Investimento 4.1 — Pubblica Amministrazione, sulla seguente tematica: Studio del linguaggio e del suo impatto sulla comunicazione nella scienza e nella medicina

La ricerca verterà su fenomeni e strutture linguistiche (es., metafore, costruzioni di backgrounding e foregrounding, etc.) in funzione della comunicazione nella scienza e nella medicina e loro impatto sulla società e sull'individuo, con riferimento a domini che includono, tra gli altri, la comunicazione in ambito oncologico, di salute mentale e nel campo dell'invecchiamento e delle demenze, l'interazione medico-paziente, la citizen science.

Ente coinvolto: Center for Ethics in Science and Journalism (CESJ)

- n. 1 posto co-finanziato a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024 - Investimento 3.3 – Dottorati innovativi che rispondono ai fabbisogni di innovazione delle imprese, sulla seguente tematica: Sviluppo del linguaggio atipico in età evolutiva: correlati neurofisiologici e implicazioni (ri)abilitative

La ricerca mira a fenotipizzare le competenze linguistiche espressive e recettive in soggetti in età evolutiva afferenti al Dipartimento di Neuroscienze Pediatriche presso la Fondazione IRCCS Istituto Neurologico "Carlo Besta" di Milano. Verranno reclutati soggetti con disturbi del neurosviluppo associati a sviluppo linguistico atipico che si ripercuote sul funzionamento comunicativo e sociale (es. disturbi primari e secondari del linguaggio, disprassia verbale, PCI, encefalopatie epilettiche come la Sindrome di Landau-Kleffner, ipoacusia neurosensoriale). Il progetto prevede il miglioramento/validazione degli strumenti di valutazione, lo studio di correlati neurofisiologici e la ricerca di strategie riabilitative in presenza e in teleriabilitazione (es. giochi linguistici, cruciverba).

Azienda coinvolta: Fondazione IRCCS, Istituto Neurologico "Carlo Besta"

Termini di presentazione della domanda online

1/07/2024 ore 13:00 (CEST)

Documentazione obbligatoria* da allegare alla domanda online

*il mancato

domanda dei

caricamento nella

- a) copia formato pdf di un documento di identità in corso di validità;
- b) autocertificazione diploma di laurea magistrale (titolo di studio italiano o UE), o copia del diploma di laurea magistrale (titolo di studio NON UE);
- c) autocertificazione diploma di laurea triennale (titolo di studio italiano o UE), o copia del diploma di laurea triennale (titolo di studio NON UE);
- d) diploma supplement o certificato con voti del diploma di laurea magistrale;
- e) diploma supplement o certificato con voti del diploma di laurea triennale;
- f) progetto di ricerca (consultare il sito IUSS per le linee guida).
- g) l'autocertificazione della media aritmetica dei voti degli esami sostenuti nella









documenti di cui alle	laurea triennale e magistrale, con range di voti possibili (tramite la procedura
lettere a) e b)	telematica di candidatura);
comporta l'esclusione dalla procedura	h) l'autocertificazione del voto finale di laurea con range dei voti possibili (tramite la
concorsuale	procedura telematica di candidatura)
	i) curriculum vitae et studiorum.
Titoli valutabili	a) diploma supplement o certificato con voti del diploma di laurea magistrale;
	b) diploma supplement o certificato con voti del diploma di laurea triennale;
	c) curriculum vitae et studiorum;
	d) progetto di ricerca;
	e) pubblicazioni;
	f) lettere di referenza (al massimo n. 2), con invio a cura dei referee, tramite la
	piattaforma web preposta, entro la data di scadenza del bando.
	Il candidato o la candidata che intenda concorrere per più borse tematiche è
	tenuto/a ad esprimere fino ad un massimo di tre preferenze sulle tematiche
	previste, indicando l'ordine di preferenza.
Prove di esame	Titoli e Colloquio
	La selezione avverrà mediante la valutazione dei titoli elencati nella sezione "Titoli
	valutabili", con l'assegnazione di un massimo di 50 su 100 punti, e colloquio, per un
	massimo di 50 su 100 punti.
	La Commissione assegnerà pertanto, in centesimi, un punteggio da 1 a 100.
	1. La Commissione esaminatrice valuterà i titoli scientifici presentati assegnando una
	votazione in cinquantesimi. Saranno ammessi al colloquio i candidati che nella
	valutazione di cui sopra avranno conseguito un punteggio non inferiore a 36/50 .
	2. Il colloquio può essere espletato anche mediante strumenti di comunicazione
	telematica idonei a garantire l'identificazione del candidato. Il colloquio avrà ad
	oggetto una discussione sui titoli presentati, sull'esperienza del candidato nonché
	delle domande tecnico-scientifiche, con l'obiettivo di verificare la vocazione alla
	ricerca e le competenze del candidato. Saranno esclusi dalle graduatorie di merito i
	candidati che nel colloquio avranno ottenuto una votazione inferiore a 36/50 .
	Durante il colloquio la Commissione accerta il possesso delle conoscenze
	disciplinari di base necessarie per la frequenza del corso di dottorato e valuta
	l'idoneità del candidato rispetto a ciascuna delle Borse di studio per cui ha
	manifestato interesse in sede di candidatura, anche sulla base del progetto
	presentato.
	In sede di colloquio, previa autorizzazione da parte del candidato, la Commissione
	procederà a valutare inoltre l'idoneità del candidato o della candidata rispetto ad
	ulteriori borse tematiche. Qualora l'esito di tale valutazione fosse positivo, l'idoneità
	attribuita sarà presa in considerazione solo per le borse che non risultino assegnate
	all'esito dello scorrimento della graduatoria.
	3. La Scuola IUSS comunicherà, all'indirizzo e-mail indicato nella domanda,
	l'ammissione al Corso dei vincitori.
Calendario delle	L'esito della valutazione titoli sarà pubblicato all'Albo della Scuola.
prove	Le prove orali si svolgeranno a partire dal giorno 23/07/2024 ore 10:30 presso il
	Palazzo del Broletto o in modalità telematica (via Zoom).
Informazioni	U.O. Corsi PhD: e-mail postlaurea@iusspavia.it









PhD in INGEGNERIA SISMICA (ROSE)

Coordinatore	Prof. Ricardo Monteiro,
Coordinatore	e-mail: ricardo.monteiro@iusspavia.it
SSD	ICAR/09, ICAR/07, GEO/10
Breve descrizione	Il Dottorato di Ricerca in Ingegneria Sismica (ROSE) è un programma congiunto con l'Università degli Studi di Pavia della durata di 36 mesi a tempo pieno. Il programma di dottorato si propone di formare operatori con spiccate capacità scientifiche e professionali, consapevoli dei contenuti culturali, tecnici e gestionali relativi all'ingegneria sismica e mitigazione del rischio sismico. I settori fondamentali di approfondimento comprendono aspetti di sismologia, geofisica, geologia, geotecnica, comportamento di materiali e strutture, analisi strutturale, progetto di nuove strutture ed adeguamento di strutture esistenti, con particolare attenzione allo studio di modalità di acquisizione dei dati, a metodologie di indagine su materiali, tecnologie e strutture, alla costruzione di quadri interpretativi per la valutazione della pericolosità, della vulnerabilità, dell'esposizione e, di conseguenza, del rischio sismico, alle tecniche di salvaguardia di elementi e strutture, ai componenti essenziali di progetto per la riduzione del rischio. Elementi fondativi del percorso formativo sono il carattere interdisciplinare, l'esperienza internazionale, il riferimento costante alle ricerche
	più avanzate e l'attenzione per gli aspetti applicativi.
Lingua	Inglese
Durata	n. 3 anni
Posti a concorso	 n. 8 posti a concorso, di cui: 2 posti coperti da borsa IUSS 1 posto coperto a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 629/2024, Investimento 3.4 Transizioni digitali e ambientali sulla seguente tematica: <i>Valutazione integrata del rischio sismico di strutture considerando l'impatto ambientale</i> Le ricerche previste da questa borsa si concentreranno sulle metodologie per la valutazione del rischio di strutture esistenti, con possibili considerazioni di analisi su larga scala. La ricerca riguarderà anche lo studio di strategie olistiche per la valutazione delle eventuali necessarie opzioni di retrofitting sismico, considerando diverse variabili decisionali, come ad esempio, sicurezza strutturale, costi di installazione e manutenzione, durata dei lavori, rischio sismico e impatto ambientale. 1 posto coperto a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024, Investimento 3.3 "Dottorati innovativi che rispondo al
	fabbisogno delle imprese" sulla seguente tematica: Sviluppo di metodi innovativi per il calcolo probabilistico della pericolosità sismica. La borsa si focalizzerà sullo sviluppo di metodi innovativi per il calcolo probabilistico della pericolosità sismica quali ad esempio il calcolo vettoriale e nuovi metodi per la propagazione dell'incertezza epistemica. Questi metodi consentiranno di ottenere stime di danno sismico alle strutture, contribuendo









TTOXEGOTIOTALIONEG	DI RIPRESA E RESILIENZA
	 così alla progettazione di interventi per una maggiore sostenibilità. Altri argomenti che potrebbero essere sviluppati riguardano nuovi approcci per la costruzione di modelli di occorrenza sismica. Ente coinvolto: Fondazione GEM 2 posti coperti dall'Università di Pavia a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024, Investimento 3.3 "Dottorati innovativi che rispondo al fabbisogno delle imprese" sulla seguente tematica: Valutazione di rischio e scenari di danno di strutture e infrastrutture Le ricerche riguarderanno ad esempio, ma non esclusivamente, la valutazione di performance e sicurezza di edifici ed infrastrutture esistenti, utilizzando variabili di rischio nonché altri parametri probabilistici, per una maggiore sostenibilità rispetto alle pericolosità naturali e ai cambiamenti climatici. Ente coinvolto: Fondazione GEM
	 2 coperti con borsa di studio finanziata dalla Fondazione Eucentre, su tematica da concordare all'inizio del percorso, insieme alla Fondazione Eucentre.
Termini di	1/07/2024 ore 13:00 (CEST)
presentazione della	` ` ,
domanda online	
Documentazione	a) copia formato pdf di un documento di identità in corso di validità;
obbligatoria* da	b) autocertificazione diploma di laurea magistrale o laurea a ciclo unico (titolo di
allegare alla	studio italiano o UE) o copia del diploma di laurea magistrale o laurea a ciclo
domanda online	unico (titolo di studio NON UE);
	c) curriculum vitae et studiorum;
*il mancato caricamento	d) diploma supplement o certificato con voti del diploma di laurea triennale e del
nella domanda dei documenti di cui alle	diploma di laurea magistrale o ciclo unico.
lettere a) e b) comporta	
l'esclusione dalla	
procedura concorsuale	
Titoli valutabili	a) curriculum vitae et studiorum;
	b) diploma supplement o certificato con voti del diploma di laurea triennale e del
	diploma di laurea magistrale o ciclo unico;
	c) pubblicazioni (con relativo elenco);
	d) lettere di referenza (fino a un massimo di tre), con invio a cura dei referee,
	tramite la piattaforma web predisposta entro la scadenza del bando;
	e) ogni altro titolo o documento ritenuto utile dal candidato che possa qualificare
	l'esperienza accademica e professionale
Prove di esame	Titoli e Colloquio
	La selezione avverrà mediante la valutazione dei titoli elencati nella sezione
	"Titoli valutabili", punti da b) a e) inclusi, con l'assegnazione di un massimo di 50
	su 100 punti, e colloquio, per un massimo di 50 su 100 punti.
	La Commissione assegnerà pertanto, in centesimi, un punteggio da 1 a 100.
	1. La Commissione esaminatrice valuterà i titoli scientifici presentati assegnando
	una votazione in cinquantesimi. Saranno ammessi al colloquio i candidati che
	nella valutazione di cui sopra avranno conseguito un punteggio non inferiore a
	36/50.
	2. Il colloquio può essere espletato anche mediante strumenti di comunicazione
	telematica idonei a garantire l'identificazione del candidato. Il colloquio avrà ad









	oggetto una discussione sui titoli presentati, sull'esperienza del candidato nonché delle domande tecnico-scientifiche, con l'obiettivo di verificare la vocazione alla ricerca e le competenze del candidato. Saranno esclusi dalle graduatorie di merito i candidati che nel colloquio avranno ottenuto una votazione inferiore a 36/50. Durante il colloquio la Commissione accerta il possesso delle conoscenze disciplinari di base necessarie per la frequenza del corso di dottorato e valuta l'idoneità del/la candidato/a rispetto alle borse tematiche bandite.	
	3. La Scuola IUSS comunicherà, all'indirizzo e-mail indicato nella domanda, l'ammissione al Corso dei vincitori.	
Calendario delle	L'esito della valutazione titoli sarà pubblicato all'Albo della Scuola.	
prove	Le prove orali si svolgeranno a partire dal giorno 22/07/2024 ore 09:30 CEST	
	presso la Fondazione EUCENTRE, Via Ferrata 1, Pavia o in modalità telematica.	
Informazioni	U.O. Corsi PhD: e-mail postlaurea@iusspavia.it	









PhD in THE HADRON ACADEMY Risk and Complexity in High Tech Medical Innovation

Coordinatrice	Prof.ssa Annalisa Bonfiglio
	e-mail: annalisa.bonfiglio@iusspavia.it
SSD	ICAR/09; ICAR/03; IUS/02; FIS/07; ING-INF/06; ING-INF/01; FIS/01; MED/36; FIS/02; MED/06; BIO/13
Breve descrizione	Lo straordinario incremento di tecnologie disponibili per la medicina ha come conseguenza la necessità di controllo dell'adeguatezza delle procedure mediche e della loro indicazione, la preparazione degli operatori sanitari all'uso consapevole delle tecnologie e la gestione dei rischi associati all'uso di questa sui pazienti. La complessità crescente del tema si esplicita nella necessità di armonizzare competenze diverse per contribuire all'ottimizzazione di tutte le fasi del percorso terapeutico del paziente. Inoltre, l'opportunità e la necessità di partecipare ai processi di sviluppo tecnologico richiede una complessa sperimentazione, associata anche ad aspetti normativi perché le innovazioni possano arrivare alla cura della persona. In questo complesso scenario si colloca il Dottorato di Ricerca in Rischio e Complessità nell'innovazione tecnologica in medicina, mirato alla formazione di medici, fisici medici, biologi, ingegneri, fisici, con un percorso di studi che promuova la costruzione di un linguaggio comune e l'integrazione di competenze differenti. La convenzione tra la Scuola Universitaria Superiore IUSS (IUSS), l'Università degli Studi di Cagliari e la Fondazione CNAO (CNAO) realizza la giusta sinergia di competenze scientifiche, metodologiche, tecnologiche e giuridiche necessarie per
	affrontare i temi menzionati nell'ambito specifico delle adroterapie. Il corso di dottorato, caratterizzato da una forte interdisciplinarietà, prevede di anno in anno la proposta di tesi di dottorato relative ad argomenti di ricerca caratterizzati da una forte complessità e interdisciplinarietà, che vedranno impegnati candidati provenienti da discipline diverse, appartenenti a diversi macro-ambiti formativi: l'ambito biomedico (medici, radioterapisti, biologi, biotecnologi), l'ambito tecnologico (fisici, ingegneri, data scientists), l'ambito umanistico-sociale (giuristi, economisti, filosofi). Al lavoro di ricerca si affianca un percorso di formazione, in parte comune (per il primo anno) e in parte specialistica. I corsi su tematiche scientifiche comuni affronteranno le nozioni disciplinari considerate imprescindibili per l'ambito applicativo della ricerca (l'adroterapia), i temi del rischio associato all'innovazione tecnologica in ambito medico e le implicazioni giuridiche ed etiche di tali innovazioni.
Lingua	Inglese
Durata	n. 3 anni
Posti a concorso	N 6. Posti a concorso, di cui:
	 n. 1 posto co-finanziato coperto a valere sul Piano Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024, sulla seguente tematica: ADROTERAPIA: dalla radiobiologia alla cura del paziente, attraverso l'incontro di diverse discipline. Argomenti principali: Esplorare l'approccio terapeutico con Particelle differenti, guidati dalle caratteristiche biologiche del tumore nelle forme radioresistenti. Il programma della cura guidato dalla radiobiologia, disegnato dalla fisica medica e realizzato da acceleratori di particelle pesanti.









- Nuovi metodi per la caratterizzazione di campi misti e di attivazione e sviluppo di strumentazione innovativa per la radioprotezione
- Sviluppo di un rivelatore per il trattamento simultaneo e la verifica della portata con un doppio fascio ionico. Impresa coinvolta: CNAO
- n. 1 posto finanziato da CNAO sulla tematica: BORON NEUTRON CAPTURE THERAPY (BNCT): la multidisciplinarietà della cura. Quando radiobiologia, farmacologia, fisica e ingegneria contribuiscono al miglioramento delle cure mediche.

Argomenti principali:

- Implementazione del work flow clinico per la BNCT (Radioterapia, Fisica medica, Bioingegneria)
- Nuovi metodi per la caratterizzazione di campi misti e di attivazione e sviluppo di strumentazione innovativa per la radioprotezione
- Studio dei campi di radiazione generati dal BNCT e della loro rilevazione durante la messa in servizio e l'attività clinica.
- n. 2 posti finanziati da CNAO sulla seguente tematica: *Acceleratori di Particelle: tecnologie avanzate e radioprotezione.*
- n. 2 posti coperti da IUSS su una delle tematiche inerenti gli argomenti del corso di Dottorato
 - Modelli di classificazione di apprendimento automatico applicati a immagini e dati biomedici.
 - Valutazione del rischio e dei benefici per la salute nel contesto della radioterapia e della adroterapia.
 - Sistemi indossabili avanzati per il monitoraggio dei pazienti durante l'adroterapia.
 - Sistemi sensoriali avanzati per la caratterizzazione delle colture cellulari nel contesto dell'adroterapia.
 - Filosofia ed etica della tecnologia avanzata in ambito medico.

01/07/2024 ore 13:00 (CEST)

Documentazione obbligatoria* da allegare alla domanda online

- *il mancato caricamento nella domanda dei documenti di cui alle lettere a) e b) comporta l'esclusione dalla procedura concorsuale
- a) copia formato pdf di un documento di identità in corso di validità;
- b) autocertificazione diploma di laurea magistrale (titolo di studio italiano o UE), o copia del diploma di laurea magistrale (titolo di studio NON UE);
- c) autocertificazione diploma di laurea triennale (titolo di studio italiano o UE), o copia del diploma di laurea triennale (titolo di studio NON UE);
- d) diploma supplement o certificato con voti del diploma di laurea magistrale;
- e) diploma supplement o certificato con voti del diploma di laurea triennale;
- f) progetto di ricerca (<u>consultare il sito IUSS per le linee guida</u>) relativo ad una o più delle tematiche sopra elencate.

Titoli valutabili

- a) diploma supplement o certificato con voti del diploma di laurea magistrale;
- b) diploma supplement o certificato con voti del diploma di laurea triennale;
- c) progetto di ricerca (consultare il sito IUSS per le linee guida)
- c) progetto di ricerca (consultare il sito 1033 per le liliee gui
- d) curriculum vitae et studiorum;
- e) pubblicazioni;
- f) lettere di referenza (fino ad un massimo di 3), con invio a cura dei referee, tramite









	T	
	la piattaforma web preposta, entro la data di scadenza del bando.	
	Il candidato o la candidata che intenda concorrere per più borse tematiche è	
	tenuto/a ad esprimere fino ad un massimo di tre preferenze sulle tematiche	
	previste, indicando l'ordine di preferenza.	
Prove di esame	Titoli e Colloquio	
	La selezione avverrà mediante la valutazione dei titoli elencati nella sezione "Titoli	
	valutabili", punti da b) a e) inclusi, con l'assegnazione di un massimo di 50 su 100	
	punti, e colloquio, per un massimo di 50 su 100 punti.	
	La Commissione assegnerà pertanto, in centesimi, un punteggio da 1 a 100.	
	1. La Commissione esaminatrice valuterà i titoli scientifici presentati assegnando una	
	votazione in cinquantesimi. Saranno ammessi al colloquio i candidati che nella	
	valutazione di cui sopra avranno conseguito un punteggio non inferiore a 36/50 .	
	2. Il colloquio può essere espletato anche mediante strumenti di comunicazione	
	telematica idonei a garantire l'identificazione del candidato. Il colloquio avrà ad	
	oggetto una discussione sui titoli presentati, sull'esperienza del candidato nonché	
	delle domande tecnico-scientifiche, con l'obiettivo di verificare la vocazione alla	
	ricerca e le competenze del candidato. Saranno esclusi dalle graduatorie di merito i	
	candidati che nel colloquio avranno ottenuto una votazione inferiore a 36/50 .	
	Durante il colloquio la Commissione accerta il possesso delle conoscenze	
	disciplinari di base necessarie per la frequenza del corso di dottorato e valuta	
	l'idoneità del candidato rispetto a ciascuna delle Borse di studio per cui ha	
	manifestato interesse in sede di candidatura, anche sulla base del progetto	
	presentato.	
	In sede di colloquio, previa autorizzazione da parte del candidato, la Commissione	
	procederà a valutare inoltre l'idoneità del candidato o della candidata rispetto ad	
	ulteriori borse tematiche. Qualora l'esito di tale valutazione fosse positivo, l'idoneità	
	attribuita sarà presa in considerazione solo per le borse che non risultino assegnate	
	all'esito dello scorrimento della graduatoria.	
	3. La Scuola IUSS comunicherà, all'indirizzo e-mail indicato nella domanda,	
	l'ammissione al Corso dei vincitori.	
Calendario delle	L'esito della valutazione titoli sarà pubblicato all'Albo della Scuola.	
prove	Le prove orali si svolgeranno a partire dal giorno 18/07/2024 ore 10:00 CEST presso	
	il Palazzo del Broletto o in modalità telematica (via Zoom).	
Informazioni	U.O. Corsi PhD: e-mail postlaurea@iusspavia.it	









Annex

Call for applications for admission to PhD programmes 40th cycle Academic year 2024/2025

Article 1

(Available positions)

The Scuola Universitaria Superiore IUSS, hereinafter referred to as the "School", hereby announces 40 positions for admission to the 40th cycle of PhD programmes.

This announcement specifies the number of positions available under the competition for each Ph.D Programme:

Programme	Coordinator	n. of positions
DEPARTMENT OF HUMANITIES AND LIFE SCIENCES		
PhD in COGNITIVE BRAIN SCIENCES	Prof. Eleonora Catricalà	6
In Agreement with Università degli Studi di Pavia.		
PhD in BIOMOLECULAR SCIENCES AND BIOTECHNOLOGY	Prof. Federico Forneris	7
In Agreement with Università degli Studi di Pavia.		
In collaboration with Philochem A.G.		
PhD in THE HUMAN MIND AND ITS EXPLANATIONS: LANGUAGE, BRAIN AND REASONING	Prof. Andrea Sereni	9
In Agreement with Università degli studi di Milano e Scuola Normale Superiore		
PhD in THEORETICAL AND EXPERIMENTAL LINGUISTICS	Prof. Valentina Bambini	6
DEPARTMENT OF SCIENCES, TECHNOLOGY AND SOCIETY		
PhD in EARTHQUAKE ENGINEERING	Prof. Ricardo Monteiro	
In Agreement with Università degli Studi di Pavia		8
In collaboration with Eucentre Foundation		









PhD in THE HADRON ACADEMY: RISK AND COMPLEXITY IN HIGH TECH MEDICAL INNOVATION	Prof. Annalisa Bonfiglio	6
In collaboration with CNAO Foundation		

The relevant admission procedures shall be formally closed after the ministerial validation has been obtained

If additional funding becomes available before the start of the Programmes, the number of positions may be increased.

The School also reserves the right to assign to eligible candidates on the merit ranking any further scholarships that may be awarded by the Ministry at the end of the procedure for the reallocation of resources made available pursuant to art. 11 of Ministerial Decree 629/2024 and art. 8 of Ministerial Decree 630/2024

Article2

(Requirements for taking part in the competition)

Candidates with the academic qualifications set forth below may take part in the selection process, without citizenship restrictions:

- Master degree
- Similar academic qualification obtained abroad recognized as comparable by the Admission Committee to the Italian qualification in terms of duration and content and deemed eligible for the purposes of taking part in the competition.

Individuals who have not obtained their qualification by the announcement deadline but who will obtain it by 31 October 2024 may also take part in the selection process.

Candidates holding a qualification obtained in Italy

All candidates holding an academic qualification obtained at an Italian University, whether they are EU or Non-EU Countries citizens, are required to self-certify their qualification and are eligible for the selection process subject to verification of the self-certified declarations.

Candidates holding a qualification obtained abroad (EU and NON-EU Countries)

All candidates holding a qualification obtained abroad (NON-EU Countries) are required to submit a legalized copy of their original degree certificate along with a translation unless written in English/French/Spanish. Admission to the Programme for candidates holding a foreign qualification obtained in a NON-EU Country is in any case conditional on verification of the qualification held, which is carried out on the basis of the "Dichiarazione di valore in loco" ["Declaration of local value"] issued by the Italian diplomatic mission competent in that territory.









Candidates holding an academic degree awarded abroad in the EU Countries are required to submit the *Diploma Supplement*.

Article 3

(Application to take part in the competition)

The application to take part in the competition, one for each PhD programme in which candidates wish to take part, should be submitted starting from **31 May 2024, 13:00 CET** by electronic means only, using the online procedure which can be found in the dedicated section of the School website at the link https://iusspavia.esse3.cineca.it by the date specified in the individual PhD programme information sheets annexed to this announcement and integral part of it.

Candidates are required to declare the following in the application, on their responsibility:

- a) surname, name, place and date of birth, nationality;
- b) that they hold the academic qualification set forth in article 2 above, specifying the degree programme, its duration and the University or Institution of Higher Education where it was obtained;
- c) the mark received in the Master degree examination, specifying the maximum possible mark and the date on which the said mark was obtained;
- d) the date on which they expect to obtain the qualification, for those not already holding it;
- e) the chosen curriculum, where the Programme envisages more than one;
- f) the domicile or contact details for receiving competition-related communications and the undertaking to inform of any further changes of address;
- g) email address, mandatory for competition-related correspondence.

The following may use the self-certification process:

- Italian and EU citizens;
- Non-EU Countries citizens who are legal residents in Italy, only as regards personal qualities and facts which can be certified or attested by Italian public bodies.

People with disabilities can, during the application process, apply for the aids they may require throughout the competition in relation to their disability, as well as for any extra time needed.

A valid identity document along with the documentation certifying the possession of the academic qualification referred to in article 2 above should be attached to the application procedure, on pain of exclusion.

The School may perform checks on the truthfulness of the declarations and documents submitted, at any time during the procedure, including after the start of the Programmes, and may request that the original documents be produced. In the event of false declarations, the School may order the exclusion of candidates from the selection procedure or from the Programme at any time, by the substantiated decision of the Rector, without prejudice to the criminal liability deriving from the same.









Article 4

(Selection Board and test examinations)

The Examining Boards for admission to the Ph.D. Programmes are appointed by decree of the Rector and their composition is available for consultation on the School website.

The candidate selection and assessment methods and criteria for drawing up the ranking lists are specified in the information sheets annexed hereto. Selection procedures will be communicated to the interested candidates with due notice.

Article 5

(Admission to the Ph.D. Programme and entrance of students)

Successful candidates are admitted to the Ph.D. Programme according to the merit ranking list and subject to availability of the positions.

The general merit ranking lists, approved by decree of the Rector, are published on the School website. Publication constitutes an official communication.

In case of equal ranking in the assessment phase, preference will be given to the younger candidate.

The School reserves the right to assign any positions which become available as a result of candidates renouncing or dropping out, to suitable candidates on the ranking list, until PhD courses start.

The start date of the Ph.D. Programmes is 1 October 2024.

NON-EU students should apply for a specific study visa to enter Italy using the online procedure through <u>Universitaly portal</u>. Students are required to apply for a residence permit for study purposes within eight (8) days of arriving in Italy.

For further information, please go to: https://www.iusspavia.it-/en/outreach/internationalization/incoming-mobility/international-students

Admitted candidates must enroll within the deadline set down in the letter of admission.

Candidates who do not complete their enrollment by the deadline and according to the procedure indicated, will be considered withdrawn.

In order to enroll, admitted candidates shall submit through the dedicated online procedure the needed documents, including:

- a) Electonic payment of Tassa regionale diritto allo Studio;
- b) Candidates who awarded their second level Degree abroad: Declaration of Local Value (*Dichiarazione di valore*) or proof of request issue to competent authorities or Diploma Supplement;
- c) Only for candidates having been awarded the second level Degree after the deadline of the competition and by 31/10/2024: Certificate or self-declaration of second level Degree, with grade, date and place of obtainment.

The effectiveness of the selection is subject to confirmation by the competent Ministry of Education, University and Research (MUR) of the validation for Academic Year 2024/2025 as provided for by art. 5 of Ministerial Decree 226/2021.









In special, justified cases, entrance of students in Italy may generally be postponed, to no more than 30 days after the official Programme start date.

Article 6

(Scholarship and other grants)

The scholarships have the duration of the PhD Course of interest and are awarded for the 1st Year and confirmed on a yearly basis for admission to the subsequent year subject to the decision by the Teaching Board of the individual programmes.

The annual amount of the scholarship is € 16.243,00, including National Social Security Contributions (INPS). This amount is exempt from the IRPEF tax and it is subject to the payment of National Social Security contribution (INPS "gestione separata"), of which two thirds are paid by the administration and one third by the PhD student.

The scholarships may not be cumulated with other scholarships granted for any reason, with the exception of those granted by national or foreign institutions to enhance the student's research activity with periods of stay abroad.

Those who have taken advantage, even partly, of a PhD scholarship in the past, may not benefit from the scholarship.

The scholarship may be increased by 50% for an average period of 6 months stay abroad and, in any case, until a maximum period of 12 months.

The School will also make an annual budget, amounting to not less than 10% of the scholarship, available to all PhD students pursuant to article 9 of Italian Ministerial Decree 226/2021 to cover research activity-related expenses in Italy and abroad, as provided for by internal rules.

The School shall insure the students against accidents and civil liability for the entire duration of the Programme.

Article 7

(PNRR Scholarships)

Implementing the National Recovery and Resilience Plan (PNRR), as part of Mission 4 Components 1 and 2, the Ministry of University and Research (MUR) - through Ministerial Decrees no. 629 and n. 630 of 24 April 2024- has assigned to universities new funds for Ph.D. scholarships XL cycle, for courses dedicated to:

- digital and environmental transitions;
- PNRR research topics;
- public administration;
- cutting-edge paths for innovative needs of companies.

The School has selected the research projects to be activated as part of the Ph.D. courses XL cycle, respecting the eligibility criteria defined by the above-mentioned Decrees and reported in this call with the lettering PNRR.

At the end of the procedures, successful applicants who have been awarded the grants referred to Ministerial Decrees no.629 and n. 630, will have to enroll, according to the art. 5.

In order to officially conclude the scholarships assignment, the MUR has to verify the projects' eligibility to the PNRR and the ANVUR has to verify their consistency with the requirements









defined in the above-mentioned Decrees. Therefore, the admission to the Ph.D. course for students awarded the grants referred to Ministerial Decrees no. 629 and n. 630, is to be considered under condition of the positive verification of eligibility, consistency and the assignment of ministerial funding.

Decrees no. 629 and n. 630, is to be considered under condition of the positive verification of eligibility, consistency and the assignment of ministerial funding.

The acceptance of PNRR scholarships implies additional duties compared to those required and detailed in the Ph.D. Courses Regulation of the School:

- write a report every six months indicating the time commitment and a summary of the main activities carried out;
- for PNRR 629 Research scholarships: spend a period of study and research abroad from a minimum of 6 to a maximum of 12 months;
- for the PNRR 629 Public Administration scholarships: spend a period of study and research abroad from a minimum of 6 to a maximum of 12 months and periods of study and research in Public Administrations, research centers or companies from a minimum of 6 to a maximum of 12 months:
- for PNRR 629 Digital and Environmental Transitions scholarships: spend a period of study and research abroad from a minimum of 6 to a maximum of 12 months and a period of study and research in a company or a research center for a minimum of 6 to a maximum of 12 months;
- for PNRR 630 cutting-edge paths for innovative needs of companies scholarships: spend a period of study and research abroad from a minimum of 6 to a maximum of 12 months and a period of study and research in a company for a minimum of 6 to a maximum of 12 months;

Failure to respect the minimum period in the company and abroad and in case of non-compliance with reporting obligations, the IUSS School reserves the right to revoke the scholarship.

Ph.D. programs funded according to the Ministerial Decree 629/24 and 630/24 must be started by 13th December 2024.

Article 8

(Obligations of the Ph.D. student)

Students undertake to comply with the rules in the Statute, in the Regulations and in Code of Ethics and Conduct of the School.

Disclaimer:

The official and legally binding announcement is the Italian one. The present document cannot be used for legal purposes and is only meant to provide information in English on the call for applications.









Procedure Supervisor:

Mrs. Giovanna Spinelli, Head of Education, Quality and Students Support Services Unit — Palazzo del Broletto, Piazza della Vittoria n. 15 — 27100 Pavia — tel. +39 0382375811, fax +39 0382375899, e-mail: info@iusspavia.it.

Data handling:

Personal data provided by candidates shall mainly be handled automatically by the School and in compliance with article 11 of Italian Legislative Decree no. 196/2003 and Regulation (EU) 2016/679 for management of the competition procedures. The data, which is made anonymous, may also be used for statistical purposes. Data must be provided in order to take part in the Competition. The interested parties have the right to ask the data controller to access personal data and to correct or cancel it or limit the processing that concerns it or to oppose the processing (articles 15 and following of EU Regulation 679 / 2016). The appropriate application should be submitted in writing to the University School for Advanced Studies IUSS Pavia, Head of Personal Data Protection RPD - Piazza della Vittoria No. 15, email: dpo@iusspavia.it The interested parties, having recourse to the conditions, also have the right to lodge a complaint with the Guarantor in accordance with the procedures laid down in Regulation (EU) 2016/679. Further information on the handling of personal data of the University School for Advanced Studies IUSS Pavia can be found at the link: https://www.iusspavia.it/en/privacy

Transparent administration:

The Scuola Universitaria Superiore IUSS Pavia operates in compliance with the legislation on the prevention of corruption (Italian Law 190/2012), by applying the measures identified in the "Piano Integrato" in the "Trasparenza" section (in Italian) of the School web site at: http://www.iusspavia.it.









PhD in COGNITIVE BRAIN SCIENCES

Coordinator	Prof. Eleonora Catricalà,	
	e-mail: eleonora.catricala@iusspavia.it	
Scientific fields	M-PSI/02; M-PSI/01; M-PSI/04; M-PSI/03; MED-26; L-LIN/01	
Brief description	The PhD Program in Cognitive Brain Sciences is a fulltime 3-year joint program with the University of Pavia. The PhD Program is aimed at providing an advanced training in neuroscientific research, focusing on the understanding of the neural processes underlying cognitive functions and behaviour during the lifespan, both in normal conditions and in neurological and psychiatric diseases, and it is strongly oriented towards an interdisciplinary approach. The aim is to train a new generation of cognitive neuroscientists capable of synthesising concepts and methods from different disciplines in an integrated approach to the study of the mind/brain relationship that not only increases competitiveness within traditional disciplinary departments, but also promotes the progress in advanced and new research, and the transfer of knowledge to Health and Education fields.	
Language	English	
Duration	3 years	
Number of	6 positions, of which:	
positions available	 n. 2 positions with scholarship funded by IUSS on the following topic: "Cognitive, clinical and experimental neuroscience". Projects focus on understanding the nature, organisation and neural processes underlying different aspects of cognitive functioning through behavioural, neurophysiological, neurostimulation and/or neuroimaging studies in healthy, neurodegenerative or psychiatric populations. Characteristic topics include memory, language, executive functions, decision-making, social cognition and nutritional neuroscience. n. 1 position with scholarship co-funded by National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: "Application of high-definition direct current transcranial stimulation (HD-tDCS) to neurorehabilitation". This research project aims at the development, and validation in neuro-psychiatric disorders, of innovative neuromodulation rehabilitation treatments aimed at increasing the intensity/focus of the effect of direct current electrical stimulation (tDCS) using customized high-definition protocols (HD-tDCS). Company involved: ICS Maugeri; n. 1 position with scholarship co-funded by National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: "Cognitive profile and body representation in eating and feeding disorders". This research project aims to investigate the characteristics of cognitive profiles and alterations in body representation in patients diagnosed with eating and feeding disorders, and in populations at risk of development these disorders. Company involved: IPSI - Istituto Psicologico Italiano; n. 1 position covered by University of Pavia with scholarship co-funded under 	









	3.3. Innovative Doctorates, on the following topic: "Behavioural, anatomical and functional study of cognitive and emotional processes in patients with drugresistant epilepsy". This research project aims to develop innovative protocols for the behavioural, anatomical and functional study of cognitive and emotional processes in patients with drug-resistant epilepsy using advanced technologies. Company involved: Ospedale Niguarda
	 n. 1 position covered by University of Pavia with scholarship co-funded under National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: "Application of new technologies in neurorehabilitation of patients with cognitive impairment: an integrated neurobiological approach". This project aims to investigate how new technologies (digital devices, telerehabilitation, virtual reality, artificial intelligence) can be integrated into the rehabilitation of cognitive difficulties resulting from diseases that directly or indirectly affect the central nervous system. Company involved: IRCCS Ospedale San Camillo
Submission	01/07/2024, 13:00 (CEST)
deadline for the	
online application	
Mandatory	a) a PDF copy of a valid identity document;
documentation*	b) self-certification of the Master Degree Certificate (Italian or UE educational
to be attached to the online	qualification), or Copy of the MSc Degree Certificate (NON-EU educational qualification);
application	c) self-certification of the Bachelor Degree Certificate (Italian or UE educational
	qualification), or Copy of the Bachelor Degree Certificate (NON-EU educational
	qualification);
*failure to upload the documentation	d) diploma Supplement/Transcript/or similar document of Master Degree
referred to in (a) and	Certificate;
(b) will result in	e) diploma Supplement/transcript/or similar document of Bachelor Degree Certificate;
exclusion from the competition procedure	f) Self-certification of the grades of the Bachelor's Degree and of the Master's
	Degree (through the application procedure). For students holding a degree obtained
	abroad, the minimum grade for sufficiency and the maximum grade of the home
	University are also required
	g) research project (see guidelines on the IUSS website). The candidate who intends
	to compete for more than one scholarship is required to submit a project for each of
	the scholarship he/she is applying for. Up to a maximum of three preferences may
	be expressed (NB: the topic of the scholarship must be included in the header of the project).
Qualification	a) diploma Supplement/Transcript/or similar document of Master Degree Certificate;
assessment	b) Self-certification of the arithmetic mean (if any), calculated by the candidate, of
	the grades obtained in the exams taken during the Bachelor's Degree and the
	Master's Degree (through the application procedure). For students holding a degree
	obtained abroad, the minimum grade for sufficiency and the maximum grade of the
	home University are also required.
	c)research project (see guidelines on the IUSS website); d) academic and professional CV;
	e) publications, if any;
	- of parametrial in unity









f) referees (maximum n. 3), if any, of whom the candidate has to indicate the institutional e-mail address (through the application procedure); g) motivational letter, if any. Interview and evaluation The selection will be performed through the assessment of the qualifications listed in the section "Qualification assessment", points from a) to f) included, with a maximum of 50 out of points and through an interview, with a maximum of 50 out of points. The Selection Board will therefore award a final score from 1 to 100. 1.The Selection Board will assess the submitted scientific qualifications awarding a score up to 50 points. The candidates obtaining a score of at least 36/50 in the assessment phase, will be accepted to the interview. 2. The interview may also be carried out online, as long as the candidate can be identified. The interview will entail a discussion about the scientific background and skills of the candidate as well as technical/scientific questions, with the aim of ascertaining the candidate's background, vocation and aptitude for research. Candidates obtaining a score below 36/50 in the interview will not eligible to the ranking list. During the interview, the selection board will verify that the candidate has the necessary fundamental knowledge and skills to for attending the doctoral course and evaluate the eligibility for the research topics of the scholarships selected, also based on the research project/s submitted. At this stage, subject to the candidate's authorization, the Selection Board will assess eligibility for scholarships other than their preferred choice(s). If the assessment is positive, eligibility for the alternative scholarship will be taken into consideration only in case of unassigned scholarships after the final ranking. 3. IUSS Pavia will notify the scholarship holders of their admission to the programme using the e-mail address provided in the application. The results about the evaluation process will be published on the IUSS website http://www.iusspavia.it The		
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using the e-mail address provided in the application. Test schedule The results about the evaluation process will be published on the IUSS website http://www.iusspavia.it The interviews will be carried out at the IUSS Marelli building or online, via Zoom. The date is 22/07/2024 at 09:00 CEST.		-
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The date is 22/07/2024 at 09:00 CEST.		http://www.iusspavia.it
The date is 22/07/2024 at 09:00 CEST.		The interviews will be carried out at the IUSS Marelli building or online, via Zoom.
Information U.O. PhD Courses: e-mail: postlaurea@iusspavia.it		_
	Information	U.O. PhD Courses: e-mail: postlaurea@iusspavia.it









PhD in BIOMOLECULAR SCIENCES AND BIOTECHNOLOGIES

Caardinatar	Duef Federice Fernania
Coordinator	Prof. Federico Forneris
Calamtifia Field	e-mail: federico.forneris@unipv.it
Scientific Field	Biology
Research topics	BIO/11 CHIM/03 BIO/04 CHIM/08 MED/04 BIO/14 BIO/19 BIO/10
Brief description	The PhD in Biomolecular Sciences and Biotechnologies is a full-time 3-year joint
	program with Università degli Studi di Pavia.
	The PhD is configured with a decidedly interdisciplinary approach guaranteed by the
	established interaction between the proponents of the course, the possibility of
	access to scientific instruments present in the laboratories, and the wealth of
	experience of the individual group coordinators.
Language	English
Duration	3 years
Number of	n. 7 positions, of which:
positions available	
	- n. 2 positions with scholarship funded by IUSS
	n 1 maritian with ashalayshin as funded by National Bassyam, and Basilianas Blan
	- n. 1 position with scholarship co-funded by National Recovery and Resilience Plan
	(PNRR) - DM 630/2024 — Investment 3.3. Innovative Doctorates, on the following topic: <i>Application of Biotechnologies to Drug Discovery</i>
	, , , ,
	Company involved: Philogen SpA
	- n. 1 position covered by University of Pavia with scholarship co-funded under
	National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3.
	Innovative Doctorates, on the following topic: <i>Investigating innate immunity against</i>
	gene therapy vectors in the central nervous system
	Company involved: Ospedale San Raffaele Srl
	Company involved. Ospedale San Kanacle Sh
	- n. 1 position covered by University of Pavia with scholarship co-funded under
	National Recovery and Resilience Plan (PNRR) - DM 630/2024 - Investment 3.3.
	Innovative Doctorates, on the following topic: <i>Production and characterization of</i>
	recombinant proteins to understand mechanisms associated to spreading of vector-
	borne pathogens
	Company involved: INF-ACT Foundation
	- n. 1 position with scholarship funded by National Recovery and Resilience Plan
	(PNRR) - DM 629/2024 - Investment 3.4 Digital and environmental transitions, on
	the following topic: Enzymes for green and red biotechnologies
	Institution involved: Dipartimento Medicina di Precisione, Università degli studi della
	Campania "L. Vanvitelli"
	- n. 1 position reserved for Philochem A.G. company employees
	= position reserves to a modification company employees
Submission	15/07/2024 at 13:00 (CEST)
deadline for the	
online application	
Mandatory	
Documentation*	a) A PDF copy of a valid identity document;
	with the stand receiving december,









to be attached to	b) Self-certification of the Master Degree Certificate (Italian or UE educational	
the on line	qualification) Or Copy of the MSc Degree Certificate (NON-EU educational	
application	qualification);	
	c) Academic and professional CV	
*failure to upload the	d) Diploma Supplement or transcript Bachelor degree	
documentation referred to in (a) and (b) will result	e) Diploma Supplement or transcript Master Degree	
in exclusion from the	f) Publications	
competition procedure	a) A density and market signal CV	
Qualification	a) Academic and professional CV	
assessment	b) Diploma Supplement or transcript Bachelor degree	
	c) Diploma Supplement or transcript Master Degree;	
	d) Publications	
	e) Up to two reference letters provided through the online application.	
Interview and	Selection will be performed through an assessment of the qualifications listed in the	
evaluation	section "Qualification assessment", from points a) to e) inclusive, with the awarding	
	of 50 points out of 100, and through an interview awarding a maximum of 50	
	points.	
	The Selection Board will therefore award a final score from 1 to 100.	
	The Selection Board will assess the scientific qualifications submitted awarding a	
	score out of fifty. Candidates obtaining a score of at least 36/50 in the overall	
	assessment phase will then be accepted for interview.	
	The interview may also be carried out using electronic communications instruments	
	which allow the candidate to be identified. The interview will entail a discussion	
	about the research plan carried out and about the research that the candidate	
	would like to conduct with the aim of ascertaining the candidate's vocation for	
	research. Candidates obtaining a score of below 36/50 will be excluded from the	
	merit ranking list.	
	During the interview, the selection board will verify that the candidate has the	
	necessary fundamental knowledge and skills for attending the doctoral course and	
	evaluate the eligibility for the research topics of the scholarships announced.	
	The School will notify scholarship holders of their admission to the School using the	
	e-mail address given in the application.	
Test schedule	The results about the evaluation process will be published on the IUSS' website	
	03/09/2024.	
	The interviews will be carried out on 09/09/2024 from 09:30 CEST at IUSS, Palazzo	
	del Broletto, Piazza della Vittoria 15 or remotely (via Zoom)	
Information	e-mail: federico.forneris@unipv.it; postlaurea@iusspavia.it	









PhD in The Human Mind and its Explanations: Language, Brain and Reasoning (HuME)

Coordinator	Prof. Andrea Sereni
Coordinator	e-mail: andrea.sereni@iusspavia.it
Scientific fields	M-FIL/01, M-FIL/02, M-FIL/03, M-FIL/05, M-PSI/01, M-PSI/05, MED/27, MED/34;
Selentine neids	BIO/09, L-LIN/01, SECS-P/01
Brief description	Over the past decade, the University of Milan, Scuola Normale Superiore in Pisa and
brief description	Scuola Universitaria Superiore IUSS Pavia have promoted top-notch international
	research in areas shared by three institutions, ranging from the philosophy of mind
	and cognitive sciences to the philosophy of logic, epistemology and theories or
	reasoning.
	Today more than ever, cutting-edge research requires taking these kinds of
	competences even further. For this reason, the HuME PhD Program requires
	candidates to develop a strong analytical and epistemological background, also
	promoting the harmonization between theoretical reflection and experimental
	practice. The goal is to attract young researchers wishing to dive deeper into the
	many facets of human cognition through a multi-disciplinary approach to their
	studies. This makes the HuME PhD program one-of-a-kind in Italy, and promises to
	make it a flagship program in Europe.
	Training for PhD students develops along two lines: fine-tuning the skills they
	acquired during their undegraduate and graduate studies, whilst providing them the
	theoretical and practical tools they need to explore philosophy, pure and
	experimental sciences, cognitive neuroscience, and linguistics. The program offers a
	multi-disciplinary approach that will allow students to devise original and innovative
	paths within their specialized area of research.
	Thanks to the network of partner Institutions, PhD candidates will have access to a
	wide range of theoretical and methodological courses, to experimental activities, and
	more generally to a variety of expertise among the members of teaching board as
	they investigate the central issues of their research.
	The program aims at broadening the academic profile of students at an international
	level. Study periods abroad and exchange programs, participation in international
	conferences, and international networks of scientific partnerships (including
	collaborations with international research centres) are all offered either directly
	within the program, or through the Faculty's independent research activities.
Language	Coherently with this approach, teaching is entirely offered in English. English
Duration	3 years
Number of	n. 9 positions, of which:
positions available	The positions, or willow
poortions aranasis	- n. 2 positions funded by Scuola Universitaria Superiore IUSS Pavia
	- n. 3 positions funded by Università degli studi di Milano
	- n. 1 position funded by Scuola Normale Superiore di Pisa
	- 11. 1 position runded by Schola Normale Superiore di Pisa
	- n. 1 position with scholarship funded by National Recovery and Resilience Plan
	(PNRR) - DM 629/2024 – Investment 4.1. Research PNRR, on the following topic:
	Mind, self and mathematics









	- n. 1 position with scholarship funded by National Recovery and Resilience Plan (PNRR) - DM 629/2024 – Investment 4.1. Public Administration, on the following topic: "Disagreement, pluralism and trust: human decisions and technologyin public policies" Institution involved: Scuola Nazionale dell'Amministrazione
	ilistitution involved. Scuola Nazionale dell'Amministrazione
	 n. 1 position covered by Università degli studi di Milano with scholarship cofunded under the National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: Mitigating Bias and opacity Risks in generative AI Company involved: Alkemy
Submission	1/07/2024 at 13:00 (CEST)
deadline for the	
online application	
Mandatory	a) a PDF copy of a valid identity document;
documentation*	b) self-certification of the Master Degree Certificate (Italian or UE educational
to be attached to	qualification), or Copy of the MSc Degree Certificate (NON-EU educational
the online	qualification);
application	c) self-certification of the Bachelor Degree Certificate (Italian or UE educational qualification), or Copy of the Bachelor Degree Certificate (NON-EU educational
	qualification);
	d) diploma Supplement/Transcript/or similar document of Master Degree Certificate;
*failure to upload the	e) diploma Supplement/transcript/or similar document of Bachelor Degree
documentation	Certificate;
referred to in (a) and (b) will result in	f) research project (see guidelines on the IUSS website);
exclusion from the	g) self-certification of arithmetic mean of the grades for the exams taken in the
competition procedure	bachelor's and master's degrees, with possible grade ranges (through the application
	procedure);
	h) self-certification of graduation grade with range of possible grades (through the
0 110	application procedure);
Qualification	a) diploma Supplement/Transcript/or similar document of Master Degree Certificate;
assessment	b) diploma Supplement/transcript/or similar document of Bachelor Degree
	Certificate; c) research project (see guidelines on the IUSS website);
	d) academic and professional CV;
	e) publications;
	f) recommendation letters (maximum n. 2), sent by the referees through the online
	system, within the deadline of the call.
Interview and	The selection will be performed through the assessment of the qualifications listed in
evaluation	the section "Qualification assessment" (maximum 50 points) and through an
	interview (maximum 50 points). The Selection Board will therefore award a final
	score from 1 to 100.
	The Selection Board will assess the submitted scientific qualifications awarding a
	score up to 50 points. The candidates obtaining a score of at least 36/50 in the
	assessment phase, will be accepted to the interview. Candidates are not required to
	be present during the assessment of qualifications.
	The interview may also be carried out online, as long as the candidate can be
	identified. The interview will entail a discussion about the scientific background and









	skills of the candidate and about the research that the candidate would like conduct,
	as well as technical/scientific questions, with the aim of ascertaining the candidate's
	background, vocation and aptitude for research. Candidates obtaining a score below
	36/50 in the interview will not eligible to be admitted to the programme hence not
	part of the ranking list.
	During the interview, the selection board will verify that the candidate has the
	necessary fundamental knowledge and skills for attending the doctoral course and
	assess the eligibility for those scholarships which may be based on specific research
	themes.
	IUSS Pavia will notify the scholarship holders of their admission to the programme
	using the e-mail address provided in the application.
Test schedule	The results about the evaluation process will be published on the IUSS website
	http://www.iusspavia.it
	The interviews will be held starting 16/07/2024 at 14:00 CEST in presence at IUSS
	School, or remotely via Zoom.
Information	e-mail: postlaurea@iusspavia.it









PhD in THEORETICAL AND EXPERIMENTAL LINGUISTICS

Coordinator	Prof Valentina Pambini
Coordinator	Prof. Valentina Bambini
Scientific fields	e-mail: valentina.bambini@iusspavia.it
	L-LIN/01; M-PSI/01; M-PSI/02; MED/25; MED/27 The DbD program in Theoretical and Experimental Linguistics is a full time 2 year.
Brief description	The PhD program in Theoretical and Experimental Linguistics is a full-time 3-year program offered by IUSS. The doctoral program aims at training scholars in the field of linguistics, considering both theoretical and experimental approaches. In particular, the program focuses on studies in the areas of theoretical syntax, experimental pragmatics, and computational linguistics, taking into account both formal descriptions and psycho/neurolinguistic investigations. Research activities are based also on national and international collaborations promoted by IUSS, very often within interdisciplinary contexts encompassing in particular the fields of psychology and medicine. The PhD program will especially promote research projects in the following domains, also combined: Theoretical syntax Neurosyntax History of the linguistic thought Computational linguistics Corpora and language modelling Processing and complexity Language disorders Language acquisition Experimental pragmatics Neuropragmatics
	- Clinical pragmatics
	- Developmental pragmatics
	For further information, see the <u>IUSS website</u> .
Language	English
Duration	3 years
Number of	n. 6 positions, of which:
positions available	
	- n. 3 positions funded by IUSS The project will deal with one or more of the PhD topics, with special reference to theoretical syntax (e.g., configurational correlates of the subject-predicate link; copular sentences, role of symmetry and symmetry-breaking phenomena), experimental syntax and neurosyntax (e.g., grammaticality judgments, reaction times, eye-tracking, neurophysiology or invasive techniques), exerimental pragmatics and neuropragmatics (metaphor and non-literal language, also at the interface with computational modelling of behavioral and brain data), clinical and developmental pragmatics, language disorders (e.g., in psychosis and with NLP approaches). - n. 1 position with scholarship funded by National Recovery and Resilience Plan (PNRR) - DM 629/2024 – Investment 4.1 Public Administration, on the following topic: Linguistic and communicative skills in children and adolescents in social disadvantage and other underserved populations









The project will deal with the study of linguistic and communicative skills in children and adolescents belonging to deprived contexts and other underserved populations, including the identification of the aspects of major difficulty and possible intervention strategies, considering also the impact of communicative interaction with carers and surveillance personnel.

Institution involved: Tribunale per i Minorenni di Milano

- n. 1 position with scholarship funded by National Recovery and Resilience Plan (PNRR) - DM 629/2024 - Investment 4.1 Public Administration, on the following topic: Language and its impact in communicating science and medicine

The project will deal with linguistic phenomena and structures (e.g., metaphors, backgrounding and foregrounding constructions, etc.) in the perspective of communicating science and medicine, including their impact on society and individuals, with specific reference to domains that include, among others, communication in the fields of oncology, mental health, aging and dementia, doctorpatient interaction, and citizen science.

Institution involved: Center for Ethics in Science and Journalism (CESJ)

- n. 1 position with scholarship co-funded by National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: Atypical language development: neurophysiological correlates and implications for intervention

The research aims to phenotype expressive and receptive language skills in subjects of developmental age attending the Department of Paediatric Neurosciences at the IRCCS Foundation "Carlo Besta" Neurological Institute in Milan. Individuals with neurodevelopmental disorders associated with atypical language development, impacting communicative and social abilities (e.g., primary and secondary language disorders, verbal dyspraxia, cerebral palsy, epileptic encephalopathies such as Landau-Kleffner Syndrome, sensorineural hearing loss), will be recruited. The project includes the improvement/validation of assessment tools, the study of neurophysiological correlates, and the search for rehabilitative strategies both inperson and "smart" rehabilitation (e.g., language games, crosswords).

Company involved: IRCSS Besta

Submission deadline for the online application

1/07/2024 at 13:00 (CEST)

Mandatory documentation* to be attached to the online application

- a) a PDF copy of a valid identity document;
- b) self-certification of the Master Degree Certificate (Italian or UE educational qualification), or Copy of the MSc Degree Certificate (NON-EU educational qualification);
- c) self-certification of the Bachelor Degree Certificate (Italian or UE educational qualification), or Copy of the Bachelor Degree Certificate (NON-EU educational qualification);
- d) diploma Supplement/Transcript/or similar document of Master Degree Certificate;

e) diploma Supplement/transcript/or similar document of Bachelor Degree

documentation
referred to in (a) and
(b) will result in
exclusion from the

competition procedure

*failure to upload the

- Certificate;
- f) research project (see guidelines on the IUSS website).
- g) self-certification of arithmetic mean of the grades for the exams taken in the









bachelor's and master's degrees, with possible grade ranges (through the application procedure); h) self-certification of graduation grade with range of possible grades (through the application procedure); a) diploma Supplement/Transcript/or similar document of Master Degree Certificate; b) diploma Supplement/Transcript/or similar document of Bachelor Degree Certificate; c) academic and professional CV; d) research project; e) publications; f) recommendation letters (maximum n. 2), sent by the referees through the online system, within the deadline of the call. The candidate who intend to compete for more than one scholarship may indicate up to 3 preferences on the proposed themes of research, indicating the order of preference. Interview and evaluation The selection will be performed through the assessment of the qualifications listed the section "Qualification assessment" (maximum 50 points) and through an interview (maximum 50 points). The Selection Board will therefore award a final score from 1 to 100. 1.The Selection Board will assess the submitted scientific qualifications awarding a score up to 50 points. The candidates obtaining a score of at least 36/50 in the assessment phase, will be accepted to the interview. Candidates are not required to be present during the assessment of qualifications. 2. The interview may also be carried out online, as long as the candidate can be identified. The interview will entail a discussion about the scientific background and skills of the candidate and about the research that the candidate would like conduct, as well as technical/scientific questions, with the aim of ascertaining the candidate's background, vocation and aptitude for research that the candidate would like conduct, as well as technical/scientific questions, with the aim of ascertaining the candidate's background, vocation and aptitude for research that the candidate has the necessary fundamental knowledge and skills to for attending the doctoral course and evaluate the eligibility for the alternat		
h) self-certification of graduation grade with range of possible grades (through the application procedure); a) diploma Supplement/Transcript/or similar document of Master Degree Certificate; b) diploma Supplement/Transcript/or similar document of Bachelor Degree Certificate; c) academic and professional CV; d) research project; e) publications; f) recommendation letters (maximum n. 2), sent by the referees through the online system, within the deadline of the call. The candidate who intend to compete for more than one scholarship may indicate up to 3 preferences on the proposed themes of research, indicating the order of preference. Interview and evaluation The selection will be performed through the assessment of the qualifications listed in the section "Qualification assessment" (maximum 50 points) and through an interview (maximum 50 points). The Selection Board will therefore award a final score from 1 to 100. 1.The Selection Board will assess the submitted scientific qualifications awarding a score up to 50 points. The candidates obtaining a score of at least 36/50 in the assessment phase, will be accepted to the interview. Candidates are not required to be present during the assessment of qualifications. 2. The interview may also be carried out online, as long as the candidate can be identified. The interview will entail a discussion about the scientific background and skills of the candidate and about the research that the candidate would like conduct, as well as technical/scientific questions, with the aim of ascertaining the candidate's background, vocation and aptitude for research. Candidates obtaining a score below 36/50 in the interview, the selection board will verify that the candidate's background, vocation and aptitude for research. Candidates obtaining a score below 36/50 in the interview, the selection board will verify that the candidate's background, vocation and aptitude for research topics of the scholarships selected, also based on the research project/s submitted. At this stage, s		bachelor's and master's degrees, with possible grade ranges (through the application
application procedure); a) diploma Supplement/Transcript/or similar document of Master Degree Certificate; b) diploma Supplement/Transcript/or similar document of Bachelor Degree Certificate; c) academic and professional CV; d) research project; e) publications; f) recommendation letters (maximum n. 2), sent by the referees through the online system, within the deadline of the call. The candidate who intend to compete for more than one scholarship may indicate up to 3 preferences on the proposed themes of research, indicating the order of preference. Interview and evaluation The selection will be performed through the assessment of the qualifications listed in the section "Qualification assessment" (maximum 50 points) and through an interview (maximum 50 points). The Selection Board will therefore award a final score from 1 to 100. 1.The Selection Board will assess the submitted scientific qualifications awarding a score up to 50 points. The candidates obtaining a score of at least 36/50 in the assessment during the assessment of qualifications. 2. The interview may also be carried out online, as long as the candidate can be identified. The interview will entail a discussion about the scientific background and skills of the candidate and about the research that the candidate would like conduct, as well as technical/scientific questions, with the aim of ascertaining the candidate's background, vocation and aptitude for research. Candidates obtaining a score below 36/50 in the interview, the selection board will verify that the candidate has the necessary fundamental knowledge and skills to for attending the doctoral course and evaluate the eligibility for the research topics of the scholarships selected, also based on the research project/s submitted. At this stage, subject to the candidate's authorization, the Selection Board will asses eligibility for scholarships other than their preferred choice(s). If the assessment is positive, eligibility for the alternative scholarship will be taken into consideration		procedure);
a) diploma Supplement/Transcript/or similar document of Master Degree Certificate; b) diploma Supplement/Transcript/or similar document of Bachelor Degree Certificate; c) academic and professional CV; d) research project; e) publications; f) recommendation letters (maximum n. 2), sent by the referees through the online system, within the deadline of the call. The candidate who intend to compete for more than one scholarship may indicate up to 3 preferences on the proposed themes of research, indicating the order of preference. Interview and evaluation The selection will be performed through the assessment of the qualifications listed in the section "Qualification assessment" (maximum 50 points) and through an interview (maximum 50 points). The Selection Board will therefore award a final score from 1 to 100. 1.The Selection Board will assess the submitted scientific qualifications awarding a score up to 50 points. The candidates obtaining a score of at least 36/50 in the assessment phase, will be accepted to the interview. Candidates are not required to be present during the assessment of qualifications. 2. The interview may also be carried out online, as long as the candidate can be identified. The interview will entail a discussion about the scientific background and skills of the candidate and about the research that the candidate would like conduct, as well as technical/scientific questions, with the aim of ascertaining the candidate's background, vocation and aptitude for research. Candidates obtaining a score below 36/50 in the interview, the selection board will verify that the candidate has the necessary fundamental knowledge and skills to for attending the doctoral course and evaluate the eligibility for the research topics of the scholarships selected, also based on the research project/s submitted. At this stage, subject to the candidate's authorization, the Selection Board will sees eligibility for scholarship others of their admission to the programme using the e-mail address provided in the		h) self-certification of graduation grade with range of possible grades (through the
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PhD in EARTHQUAKE ENGINEERING (ROSE)

Coordinator	Prof. Ricardo Monteiro,
Coordinator	e-mail: ricardo.monteiro@iusspavia.it
Scientific fields	
Scientific fields Brief description	ICAR/09, ICAR/07, GEO/10 The PhD in Earthquake Engineering (ROSE) is a three-year full-time joint programme with the University of Pavia. The ROSE PhD aims to train graduates and professionals with strong scientific and professional capabilities, aware of the cultural, technical and management contents related to earthquake engineering and seismic risk, including topics related to seismology, geophysics, geology, geotechnics, behaviour of materials and structures, structural analysis, design of new structures and assessment of existing structures, with particular attention to the study of data acquisition methods, methods of investigation of materials, technologies and structures, the development of interpretative frameworks for assessment of hazard, vulnerability, exposure and, consequently, seismic risk, and techniques for safeguarding elements and structures, i.e. essential project components for risk reduction. The programme is characterised by interdisciplinary character, international experience, constant reference to the most advanced and applied
	research.
Language	English
Duration	3 years
Number of positions available	8 positions, of which: - n. 2 positions funded by IUSS
	 n. 1 position with scholarship funded by National Recovery and Resilience Plan (PNRR) - DM 629/2024 – Investment 3.4 "Digital and environmental transitions", on the following topic: Integrated seismic risk assessment of structures considering environmental impact The research under this grant will focus on methodologies for risk assessment of existing structures, with possible large-scale analysis considerations. The research will also concern the study of holistic strategies for the evaluation of any necessary seismic retrofitting options, considering various decision-making variables, such as, for example, structural safety, installation and maintenance costs, duration of the works, seismic risk and environmental impact. Institution involved: Eucentre Foundation
	 n. 1 position with scholarship co-funded by National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: Development of innovative methods for probabilistic seismic hazard analysis The grant will focus on the development of innovative methods for the probabilistic calculation of seismic hazard, such as vector calculus and new methods for the propagation of epistemic uncertainty. These methods will allow to obtain estimates of seismic damage to structures, thus contributing to the design of interventions for higher sustainability. Other topics that could be developed concern new approaches for building seismic occurrence models. Company involved: GEM Foundation









	 n. 2 positions covered by University of Pavia with scholarship co-funded under National Recovery and Resilience Plan (PNRR) - DM 630/2024 – Investment 3.3. Innovative Doctorates, on the following topic: Risk assessment and damage scenarios of structures and infrastructure The research will concern for example, but not exclusively, the evaluation of performance and safety of existing buildings and infrastructure assets, using risk variables, as well as other probabilistic parameters, for greater sustainability with respect to natural hazards and climate change. Company involved: GEM Foundation n. 2 positions with scholarship funded by the Eucentre Foundation, on a topic to be agreed upon with the Eucentre Foundation, at the beginning of the programme.
Submission	01/07/2024 at 13:00 (CEST)
deadline for the	01/01/2027 at 13.00 (CL31)
online application	
Mandatory	
documentation*	a) A PDF copy of a valid identity document;
to be attached to	b) Self-certification of the MSc Degree Certificate (in case of Italian or UE
the online	educational qualification) <u>OR</u> copy of the MSc Degree Certificate (NON-EU
application	educational qualification);
	c) Academic and professional CV;
*failure to upload the	d) Diploma Supplements (or similar documents) of "Diploma di Laurea
documentation referred to in (a) and (b) will result in exclusion from the competition procedure	Triennale"/BSc Degree and "Diploma di Laurea Magistrale"/MSc Degree.
Qualification	a) Academic and professional CV;
assessment	b) Diploma Supplements (or similar documents) of "Diploma di Laurea
	Triennale"/BSc Degree and "Diploma di Laurea Magistrale"/MSc Degree;
	c) Scientific publications (and list of relevant publications);
	d) Up to three reference letters (to be sent by the referees following the online
	application procedure);
	e) Any other academic or professional qualifications that the candidate deems
	relevant to the programme.
Interview and	The selection will be performed through the assessment of the qualifications listed in
evaluation	the section "Qualification assessment" (maximum 50 points) and through an
	interview (maximum 50 points). The Selection Board will therefore award a final
	score from 1 to 100.
	The Selection Board will assess the submitted scientific qualifications awarding a
	score up to 50 points. The candidates obtaining a score of at least 36/50 in the
	assessment phase, will be accepted to the interview. Candidates are not required to
	be present during the assessment of qualifications.
	The interview may also be carried out online, if the candidate can be identified. The interview will entail a discussion about the scientific background and skills of the
	candidate and about the research that the candidate would like conduct, as well as
	technical/scientific questions, with the aim of ascertaining the candidate's
	background, vocation and aptitude for research. Candidates obtaining a score below
	36/50 in the interview will not be eligible to be admitted to the programme hence
	1 1 the meeting and the engine to be definited to the programme hence









	not part of the ranking list.
	During the interview, the selection board will verify that the candidate has the
	necessary fundamental knowledge and skills to for attending the doctoral course
	and evaluate the eligibility for the research topics of the scholarships announced.
	IUSS Pavia will notify the scholarship holders of their admission to the programme
	using the e-mail address provided in the application.
Test schedule	The results about the evaluation process will be published on the IUSS website
	http://www.iusspavia.it.
	The interviews will be carried out from 22/07/2024 at 09:30 CEST onwards, at the
	"EUCENTRE Foundation", Via Ferrata n. 1, 27100, Pavia or online.
Information	e-mail: postlaurea@iusspavia.it









PhD in THE HADRON ACADEMY Risk and Complexity in High Tech Medical Innovation

Coordinator	Prof.ssa Annalisa Bonfiglio
Coordinator	e-mail: annalisa.bonfiglio@iusspavia.it
Scientific fields	ICAR/09; ICAR/03; IUS/02; FIS/07; ING-INF/06; FIS/01; MED/36; FIS/02; MED/06; BIO/13
Brief description	The extraordinary increase of technologies available in the biomedical field induces as a consequence the need of controlling the adequacy of medical procedures and their prescription, the preparation of medical staff for the informed use of technologies and the management of risks associated to their use with patients. The increasing complexity of this topic requires the harmonization of different competences in order to optimize all phases of the therapeutic route of the patient. In addition, the technological development in medicine is a complex procedure also under the legal and ethical point of view, aspects essential for allowing innovation reaching the patient. In this scenario, the PhD program in Risk and Complexity in High Tech Medical Innovation aims at the education of medical doctors, medical physicists, biologists, engineers, physicists with a program whose goal is building a common language and integrating different skills and competences. The agreement between the Scuola Universitaria Superiore IUSS (IUSS), the University of Cagliari and Fondazione CNAO (CNAO) ensures the right synergy of scientific, methodological, technological, legal/ethical competences needed for considering the mentioned topics in the specific scientific/technological area of Hadrotherapy. The PhD course, characterized by a high degree of interdisciplinarity, proposes every year to the candidates, research topics and activities characterized by interdisciplinarity and complexity that can be dealt with by motivated students coming from different disciplines, i.e. biomedical disciplines (medical doctors, radiotherapists, biologists, biotechnologists), technological disciplines (physicists, engineers, data scientists), humanities/social disciplines (lawyers, economists, philosophers). The research activities will be accompanied by a curriculum including both common and specialistic courses. Common courses will deal with general topics related to hadrotherapy (the main focus of the PhD) and to risks associated to the technolo
Language	English
Duration	3 years
Number of positions available	6 positions, of which:
	 n. 1 position co-funded by Piano Nazionale di Ripresa e Resilienza (PNRR) DM 630/2024, on the following topic: RADOTHERAPY: from radiobiology to patient care, through the integration of different disciplines. Main topics: Exploring therapeutic approaches with different particles, guided by the biological characteristics of tumors in radioresistant forms. Treatment program guided by radiobiology, designed by medical physics, and implemented by heavy particle accelerators. New methods for characterizing mixed fields and activation, and development









	of innovative instrumentation for radioprotection. • Development of a detector for simultaneous treatment and range verification with a dual ion beam. Company involved: CNAO.
	- n. 1 position funded by CNAO on the topic: BORON NEUTRON CAPTURE THERAPY (BNCT): the multidisciplinarity of care. When radiobiology, pharmacology, physics, and engineering contribute to the improvement of medical treatments. Main topics:
	 Implementation of clinical workflow for BNCT (Radiotherapy, Medical physics, Bioengineering). New methods for characterizing mixed fields and activation, and development
	of innovative instrumentation for radioprotection. • Study of radiation fields generated by BNCT and their detection during commissioning and clinical activity.
	- n. 2 positions funded by CNAO on the following topic: Particle Accelerators: advanced technologies and radioprotection.
	- n. 2 positions funded by IUSS on one of the following topics relevant to the doctoral course subjects:
	 Machine-learning classification models applied to biomedical imaging and data. Health risk and benefit assessment in the context of radio- and hadron therapy Advanced wearable systems for patient monitoring during hadrotherapy Advanced sensor systems for the characterization of cell cultures in the context of hadrotherapy Philosophical and ethical implications of medical advanced technologies
Submission deadline for the	01/07/2024 at 13:00 CEST
online application	
Mandatory	a) a PDF copy of a valid identity document;
documentation*	b) self-certification of the Master Degree Certificate (Italian or UE educational
to be attached to	qualification), or Copy of the MSc Degree Certificate (NON-EU educational
the online	qualification);
application *failure to upload the	c) self-certification of the Bachelor Degree Certificate (Italian or UE educational qualification), or Copy of the Bachelor Degree Certificate (NON-EU educational
documentation referred	qualification);
to in (a) and (b) will result in exclusion from the	d) diploma Supplement/Transcript/or similar document of Master Degree
competition procedure	Certificate;
	e) diploma Supplement/transcript/or similar document of Bachelor Degree
	Certificate;
	f) a proposal of research project (see guidelines on the IUSS website) related to one or more of above mentioned topics;
Qualification	a) diploma Supplement/Transcript/or similar document of Master Degree Certificate;
assessment	b) diploma Supplement/transcript/or similar document of Bachelor Degree
	Certificate;
	c) research project (see guidelines on the IUSS website).
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	d) academic and professional CV;
	e) publications;
	f) recommendation letters (up to 3), sent by the referees through the online system,
	within the deadline of the call.
	The candidate may indicate up to 3 preferences on the proposed themes of
	research, indicating the order of preference.
Interview and	The selection will be performed through the assessment of the qualifications listed in
evaluation	the section "Qualification assessment" (maximum 50 points) and through an
	interview (maximum 50 points). The Selection Board will therefore award a final
	score from 1 to 100.
	1.The Selection Board will assess the submitted scientific qualifications awarding a
	score up to 50 points. The candidates obtaining a score of at least 36/50 in the
	assessment phase, will be accepted to the interview. Candidates are not required to
	be present during the assessment of qualifications.
	2.The interview may also be carried out online, as long as the candidate can be
	identified. The interview will entail a discussion about the scientific background and
	skills of the candidate and about the research that the candidate would like to
	conduct, as well as technical/scientific questions, with the aim of ascertaining the
	candidate's background, vocation and aptitude for research. Candidates obtaining a
	score below 36/50 in the interview will not be eligible to be admitted to the
	programme hence not part of the ranking list.
	During the interview, the selection board will verify that the candidate has the
	necessary fundamental knowledge and skills to for attending the doctoral course
	and evaluate the eligibility for the research topics of the scholarships selected, also
	based on the research project/s submitted.
	At this stage, subject to the candidate's authorization, the Selection Board will assess
	eligibility for scholarships other than their preferred choice(s). If the assessment is
	positive, eligibility for the alternative scholarship will be taken into consideration
	only in case of unassigned scholarships after the final ranking.
	3. IUSS Pavia will notify the scholarship holders of their admission to the programme
	using the e-mail address provided in the application.
Test schedule	The results about the evaluation process will be published on the IUSS website
	http://www.iusspavia.it
	The interviews will be carried out on 18/07/2024 at 10.00 CEST , at the IUSS building
	or online, via Zoom.
Information	e-mail: postlaurea@iusspavia.it