Innovation Research Boot Camp 2026 Selection Committee
National Bureau of Economic Research (NBER)

Dear Selection Committee,

I am writing to express my interest in participating in the NBER Innovation Research Boot Camp 2026. I am a PhD researcher in *Economics and Management of Innovation and Sustainability* at the University of Parma, where my work focuses on understanding and addressing youth disengagement and labour market inclusion in Europe. I believe that this Boot Camp represents an exceptional opportunity to advance my research skills within an innovation-focused community of scholars.

My current project examines the determinants of NEET (Not in Employment, Education, or Training) status using Labour Force Survey and regional indicators, employing multilevel methods to account for both individual and territorial effects. I have developed a composite index of structural disadvantage to quantify how contextual factors amplify individual vulnerabilities, with policy implications for targeted labour market strategies. This work speaks directly to the Boot Camp theme of Innovation in Labor Market Inclusion and provides a concrete foundation for rigorous empirical inquiry.

In previous experience, I collaborated with public authorities and civil society organizations to link academic research with advocacy and policy insights including presenting at international forums where I engaged in evidence-based discussions with policymakers. I also have strong communication and quantitative analysis skills, using tools such as STATA, R, Python, and digital platforms for disseminating research to diverse audiences.

I am particularly drawn to the Boot Camp's emphasis on actionable research and cross-disciplinary learning. I am eager to expand my methodological toolkit, engage with peers and mentors, and contribute insights from my work on NEET transitions and policy innovation. I am confident that the Boot Camp will deepen my ability to produce impactful, policy-relevant research that bridges academic rigor and real-world solutions.

Thank you for considering my application. I would be honored to take part in this opportunity and look forward to the possibility of contributing to and learning from the NBER innovation research community.

Sincerely,

Maria Novitasari

Maria Novitasari

Maria is committed to advancing sustainability, tackling climate change, and promoting labour equality. She aims to drive meaningful change by helping corporations adopt nature-based solutions and responsible business strategies. With strengths in multicultural communication, statistics, and data analysis, she bridges academic research with practical action to support environmental resilience and social justice.

Contact : +39 3392433169
Email: marianovsaragi@hotmail.com / germaryanovsaragi@gmail.com

Experience

Regione Emilia Romagna
Researcher
Jan 2026 – present *Bologna, Italy*
Research residency under the PNRR scholarship, focusing on analyzing young people not in education, employment, or training Regione Emila-Romagna.

Universidad de Salamanca
Visiting doctoral researcher
Mar 2025 – Sep 2025 Salamanca*, Spain*
Research residency under the PNRR scholarship, focusing on analyzing young people not in education, employment, or training in Spain's autonomous communities.

Metropolitan City of Milan
Researcher
September 2024– March 2025 *Milan, Italy*
Responsible for research on youth unemployment in Lombardy.

CSV Brescia
Social Media Officer
May 2023 – May 2024 *Brescia, Italy*
Responsible for communication, cultural events, and social media.

Environmental Association Za Zemiata - Friends of the Earth Bulgaria
Graduate Student Researcher
August 2022 – November 2022 *Sofia, Bulgaria*
Researched about the renewable energy in Indonesia and Bulgaria ,

De-LAB
Business Development Analyst
August 2021 - November 2021 *Milan, Italy*
Did an analyst of Indonesia as a potential market for GRI reporting, B certification and Lego Serious Play.

Data Duck
Digital Marketing Account Manager

November 2019 – August 2020 (10 months) *Remote*
Researched the market situation and developed a communication strategy to attract new users.

Ericsson
Strategic Sourcing
November 2018 - November 2019 (1 year 1 month) *Jakarta, Indonesia*
Vendor management in business services and logistics categories.

Friends of the Earth
Steering group member
March 2018 - March 2019 (1 year 1 month) *Remote*
Made climate justice events for young people and wrote grants for youth projects.

Greenpeace
Intern of Forest department
September 2018 - October 2018 (2 months) Jakarta, Indonesia
Collected the data for the one map policy.

Education

Università degli Studi di Parma e Università Cattolica del Sacro Cuore
PhD, Economics Management of Innovation and Sustainability (2023 – Present)

Università degli Studi di Brescia
Master of Science, Green Economy and Sustainability (2023)

UiT- The Arctic University of Norway
Student exchange, marine ecology, climate ocean and entrepreneurship (2017)

Northern Arctic Federal University
Bachelor of Science (B.Sc.), Ecology and management of natural resources (2018)

SMA Tarakanita 1 Jakarta
High School, Natural Science · (2013)

Languages

Indonesian (Native or Bilingual) Russian (C1) English (C1) Italian (B2) Spanish (A2)

Top Skills

- Microsoft office
- SAP
- Python
- R
- LEAP

- STATA
- Canva
- Google Analytics
- Life Cycle Assessment
- Sustainability / ESG reporting: GRI, TCFD, SASB

I authorize the processing of personal data contained in my Curriculum Vitae based on art. 13 GDPR 679/16.

REPORT ANNUALE ATTIVITÀ

ANNO ACCADEMICO 2024/25

Corso di DOTTORATO:	**Economia e Management dell'innovazione e della Sostenibilità - EMIS**

Anno di Corso:	2024/ 2025
Ciclo:	39

Dottorando/a:	Maria Novitasari
Tutor:	Prof. Chiara Mussida

ATTIVITA' FORMATIVE

CORSI SPECIFICI E ATTIVITA' MULTIDISCIPLINARI

	ATTIVITA'	DATA	Disciplina scientifica [1]	N. di ore	ECTS[2]	Voto – Giudizio[3]	Teacher	Grado (PhD, Master, etc.)
WORKSHOPS								
1	The Evolution of Gender in the Labor Market	18.09.2025-19.09.2025	SECS-P/02	14	2	NP	Prof. Barbara Petrongolo	PhD
2	Crime and the Labor Market	24.09.2025-25.09.2025	SECS-P/02	12	1,7	NP	Prof. Paolo Pinotti	PhD
3	How to Successfully Support Professional Inclusion of Young Persons with Disabilities Through the Job Crafting Model	Sep 2025	SECS-P/02	4	0,6	NP	Dott.ssa Jaśkiewicz-Kłosowska	Aperto al pubblico
SEMINARI								
1	Virtual Development Economics Series	Sep 2025-October 2025	SECS-P/02	6	0,9	NP	Prof. Pascaline Dupas, Prof. Leopoldo Fergusson e Prof. Pauline Rossi	PhD
2	Optimal Scaling Auctions: A Consumer Theory Deconstruction.	11.06.2025	SECS-P/06	2	0,3	NP	Prof. Ernesto Rivera Mora	PhD
3	Shapley value-based rules for distributing duration costs in stochastic projects.	27.06.2025	SECS-P/06	2	0,3	NP	Prof. Ignacio García Jurado	PhD
4	Difference-in-Differences: From Theory to Empirical Applications	16.05.2025	SECS-P/05	2	0,3	NP	Prof. Luis Pablo de la Horra	PhD
5	Financing the Revolution and Early State Building in Mexico, 1910-1930	09.04.2025	SECS-P/12	2	0,3	NP	Prof. Luz Marina Arias	PhD

6	A Quantum Approach to Conjunction Fallacy and Category Assignment: Experimental Evidence	20.03.2025	SECS-P/05	2	0,3	NP	Prof. Edgardo Bucciarelli e Prof. Casimiro Insardi	PhD
7	Premio SIE per tesi di Dottorato di Ricerca in Economia XXV Edizione – 2025	16-17.09.2025	SECS-P/02	4	0,6	NP	Dott. Micocci, Dott. Savoia, Dott. Peruzzi, Dott. Calabresi, Dott. Dal Torrione, Dott. Nobilli	PhD
CORSI								
1	Spagnolo A2	08.04.2025-19.06.2025	L-LIN/12	30	4,3	NP	Dott.ssa Ilse Gonzalez Roch	Aperto a tutti gli studenti
2	Experimental Economics Course	04.06.2025	SECS-P/05	3	0,4	NP	Prof. Juan Antonio Lacomba, Prof. Tibor Neugebauer e Prof. Francisco Lagos	PhD
3	Lingua Italiana per stranieri	Feb-Mar 2025	L-LIN/12	25	3,6	NP	Prof. Giulia Costa	Aperto a tutti gli studenti
SCUOLE								
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ATTIVITA' INTERDISCIPLINARI (SOFT SKILLS)

	ATTIVITA'	DATA	Disciplina scientifica[1]	N. di ore	ECTS[2]	Voto – giudizio[3]	Teacher	Grado (PhD, Master, etc.)
WORKSHOPS								
1	Docability II edition	Dec 2024-Jan 2025	SECS-P/02	12,5	1,8	NP	Prof. Giulia Pezzi	PhD
2								
SEMINARI								
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CORSI								
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SCUOLE								
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2								

ATTIVITA' DI RICERCA

PARTECIPAZIONE A PROGETTI DI RICERCA

Titolo di Progetti Internazionali o Nazionali di cui ha fatto parte la ricerca e breve descrizione dell'attività svolta (max 100 caratteri)

TITOLO DEL PROGETTO	DOVE Istituzione/Sede	QUANDO		ECTS[4]
		DAL	AL	
Reimagining Rural Youth Inclusion in an Advanced Economy: Insights from Lombardy, Italy	Città metropolitana di Milano	01.09.2024	28.02.2025	7,6

PROGETTI DI RICERCA ALL'ESTERO

TITOLO DEL PROGETTO	DOVE Istituzione/Sede/Paese	QUANDO		ECTS[4]
		DAL	AL	
Regional and Socioeconomic Drivers of Youth Disengagement: Evidence from Spain's NEET	Universidad de Salamanca	01.03.2025	30.09.2025	35

RISULTATI

Pubblicazioni (anche presentate), **Posters**, **Comunicazioni orali**, **Domande brevetti**, **Premi scientifici**

1. Presentazione del primo capitolo sulla Lombardia al Festival Internazionale dell'Economia di Torino.
2. Presentazione del IX Convegno SISEC – PAVIA 2025 Lo stock dei giovani occupati alla luce dei dati delle comunicazioni obbligatorie.
3. Pubblicato il Rapporto territoriale OML – Anno 2024: Le dinamiche degli eventi lavorativi nei territori lombardi. Città Metropolitana di Milano.
4. Inviato un articolo dal titolo "Reimagining Rural Youth Inclusion in an Advanced Economy: Insights from Lombardy, Italy" al Journal of Youth Studies.
5. Presentazione dei risultati della ricerca sui NEET in Lombardia ai Comuni di Milano e ad Assolombarda.
6. Collaborazione all'organizzazione di un seminario volto a migliorare l'occupabilità dei neolaureati internazionali a Milano, in collaborazione con il Centro per l'Impiego di Milano e AFOL Milano.

ALTRE ATTIVITA'

Atività Didattica all'Università di Parma (max 40 ore), tutoraggio, esercitazioni di laboratorio, altro..

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NOTE: Le righe possono essere aggiunte o eliminate.

[1] Indicare la disciplina (SSD ministeriale) dei corsi specifici o "Multi" per scuole/Workshops in cui sono offerti moduli di diverse discipline;

[2] Indicare proporzionalmente secondo quanto approvato dal Collegio dei Docenti (**7 ore equivalgono a 1 CFU**)

[3] Indicare "Voto" se alla fine dell'attività è stato previsto un esame con votazione; "Id" se è stata assegnata solo IDONEITA';

[4] Approssimativamente 5 CFU al mese per impegno a tempo pieno (escludendo vacanze e attività di formazione o altro); i dottorandi devono acquisire 180 CFU nei tre anni.

RIEPILOGO

ATTIVITA' FORMATIVE		ATTIVITA' DI RICERCA	ALTRE ATTIVITA'
CORSI SPECIFICI E ATTIVITA' MULTIDISCIPLILNARI	ATTIVITA' INTERDISCIPLINARI (SOFT SKILLS)		
ECTS 15,6	ECTS 1,8	ECTS 42,6	ECTS

(N.B. La somma dei crediti annuali dovrebbe essere 60 CFU)

Data, 17.10.2025

(firma dottorando/a)

Chiara Mussida

(firma supervisore)

PER PRESA VISIONE IL COORDINATORE:

REPORT ANNUALE ATTIVITÀ

ANNO ACCADEMICO 2023/24

Corso di DOTTORATO:	**Economia e Management dell'innovazione e della Sostenibilità - EMIS**

Anno di Corso:	23/24
Ciclo:	39

Dottorando/a:	Maria Novitasari
Tutor:	Prof. Chiara Mussida

ATTIVITA' FORMATIVE

CORSI SPECIFICI E ATTIVITA' MULTIDISCIPLINARI

	ATTIVITA'	DATA	Disciplina scientifica [1]	N. di ore	ECTS[2]	Voto – Giudizio[3]	Teacher	Grado (PhD, Master, etc.)
WORKSHOPS								
1	Econometrics: Methods and Applications	Ago 2024	SECS-P/05	8	1	NP	Prof. Franses	Master
2	Introduction to Statistics	Lug 2024	SECS-S/03	12	1.7	NP	Prof. Walther	Master
3	Agent-based Models of Social Networks' hosted by the Department of Social & Political Sciences at UNIMI.	22-23 Apr 2024	GSPS-05/A	10	1.4	NP	Prof. Squazzoni	PhD
SEMINARI								
1	Equal Wage in Europe: how far? EU action for equal pay, gender wage gap determinants and policies	6 Dic 2023	SECS-P/02	4	0.5	NP	Prof. Addabbo	Master
2	La contrattazione collettiva: un quadro alla luce degli avviamenti al lavoro	15 Gen 2024	SECS-P/02	4	0.5	NP	Osservatorio mercato del lavoro di Milano	Aperto al pubblico
3	La Business Intelligence a servizio della Pubblica Amministrazione	9 Feb 2024	Multi	4,5	0.6	NP	Comune di Parma	Aperto al pubblico
4	MiO2024 | Milano - Occupazione 2024	06 mag 2024	SECS-P/02	4	0.5	NP	Osservatorio mercato del lavoro di Milano	Aperto al pubblico
5	Combining qualitative research with quantitative methods: data analysis issues	14 Feb 2024	SECS-P/08	2	0.3	NP	Prof. Morady	PhD
CORSI								

1	Metodi statistici per l'analisi di dati economici e aziendali	Nov 2023	SECS-S/03	36	5.1	Buono	Prof. Cerioli e Laurini	PhD
2	Introduzione a Phyton e Latex	Nov 2023	INF/01	24	3.4	NP	Prof. Corbellini e prof. Morelli	PhD
3	Metodi matematici per l'analisi dati	Feb 2024	SECS-S/06	24	3.4	Discreto	Prof. Calvi	PhD
4	Robust mixture modelling and robust model based clustering with applications to artificial intelligence	Mar-Mag 2024	SECS-S/03	20	2.9	NP	Prof. Mayo-Iscar	PhD
5	Meta-analysis for management and social sciences research	Mag 2024	SECS-P/08	24	3.4	NP	Prof. Tammo H. A. Bijmolt	PhD
6	Metodologia della ricerca quantitativa	Feb- Mag 2024	SECS-P/08	21	3	Buono	prof. Luceri, prof. Vergura, prof. Aiolfi	PhD
7	Data management with STATA	Mar-Apr 2024	INF/01	21	3	Distinto	Prof. Rizzo	PhD
8	Micro-Macroeconomia	Feb- Mag 2024	SECS-P/01	42	6	Ottimo e Buono	prof.Rosa,prof.Brondino,prof .Magnani, prof. Bertarelli	PhD
9	Academic English	Feb-Mar 2024	L-LIN/12	36	5.1	Attestato	Prof. Jones	PhD
10	Metodi controfattuali per l'analisi economica e la valutazione di policy	Giu 2024	SECS-S/03	12	1.7	NP	Prof. Calegari	PhD
SCUOLE								
1	ABMinECO - Agent-based models in Economics: theory, toolkit and policy laboratories	8-12 Lug 2024	SECS-P/01	30	3	25/30	Scuola Superiore Sant'Anna	PhD
2	Agent-Based Models for Economics, Finance and Climate	2-6 Sett 2024	SECS-P/01	35	5	NP	Università degli Studi di Brescia	Master
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ATTIVITA' INTERDISCIPLINARI (SOFT SKILLS)

	ATTIVITA'	DATA	Disciplina scientifica[1]	N. di ore	ECTS[2]	Voto – giudizio[3]	Teacher	Grado (PhD, Master, etc.)
WORKSHOPS								
1	MIGRAZIONE, SALUTE E GENERE COSTRUZIONE DI UNA RETE DI SERVIZI	12 dic 2023	MULTI	4	0.5	NP	Comune di Brescia	Aperto al pubblico
2	UNIVERSITY FOR SDGS, I TERRITORI E LE SFIDE DELLA TRANSIZIONE ECOLOGICA - II EDIZIONE	16 Mag 2024	SECS-P/02	8	1	NP	Prof. Vergalli	Master
SEMINARI								
1	INCONTRO VOLONTARIATO: ACCANTO AI POVERI	15 Nov 2023	MULTI	4	0.5	NP	Comune di Brescia	Aperto al pubblico
2	ACCOR Brescia – ACCoglienza e REsilienza La progettazione sociale a facore di migranti	14 Dec 2023	MULTI	4	0.5	NP	Comune di Brescia	Aperto al pubblico
3	Volontariato del futuro: una pluralità di forme	28 Feb 2024	SECS-P/08	4	0.5	NP	Prof. Giorgio Fiorentini	Master
4	Introduzione a Statista	8 Mar 2024	SECS-S/03	2	0.3	NP	Dott. Mariscal	PhD
CORSI								
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SCUOLE								
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ATTIVITA' DI RICERCA

PARTECIPAZIONE A PROGETTI DI RICERCA

Titolo di Progetti Internazionali o Nazionali di cui ha fatto parte la ricerca e breve descrizione dell'attività svolta (max 100 caratteri)

TITOLO DEL PROGETTO	DOVE Istituzione/Sede	QUANDO		ECTS[4]
		DAL	AL	
Pro Cura: Analizzare i dati di comunicazione obbligatori dei lavori basati su 5 cifre dei codici ATECO nel settore degli assistenti sociali.	Osservatorio mercato del lavoro di Milano	Sep 2024	Ott 2024	2

NEET in Lombardia : Analisi dei microdati dell'Indagine sulle Forze di Lavoro dell'Istat	Università Cattolica del Sacro Cuore	Sep 2024	Ott 2024	1
ABM in ECO: Creazione di un modello basato sull'agente NEET per analizzare la transizione del "microcomportamento"	Scuola Superiore Sant'Anna	Lug 2024	Ago 2024	1.8

PROGETTI DI RICERCA ALL'ESTERO				
TITOLO DEL PROGETTO	**DOVE** Istituzione/Sede/Paese	**QUANDO**		**ECTS** [4]
		DAL	**AL**	

RISULTATI **Pubblicazioni** (anche presentate), **Posters**, **Comunicazioni orali**, **Domande brevetti**, **Premi scientifici**
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ALTRE ATTIVITA' Atività Didattica all'Università di Parma (max 40 ore), tutoraggio, esercitazioni di laboratorio, altro..
1. Aiutare i tre tirocinanti dell'OML Milano del Master Data Science UniMIB a trovare una metodologia statistica per analizzare i dati di comunicazione obbligatoria.
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NOTE: Le righe possono essere aggiunte o eliminate.
[1] Indicare la disciplina (SSD ministeriale) dei corsi specifici o "Multi" per scuole/Workshops in cui sono offerti moduli di diverse discipline;
[2] Indicare proporzionalmente secondo quanto approvato dal Collegio dei Docenti (**7 ore equivalgono a 1 CFU**)
[3] Indicare "Voto" se alla fine dell'attività è stato previsto un esame con votazione; "Id" se è stata assegnata solo IDONEITA';
[4] Approssimativamente 5 CFU al mese per impegno a tempo pieno (escludendo vacanze e attività di formazione o altro); i dottorandi devono acquisire 180 CFU nei tre anni.

RIEPILOGO

ATTIVITA' FORMATIVE		**ATTIVITA' DI RICERCA**	**ALTRE ATTIVITA'**
CORSI SPECIFICI E ATTIVITA' MULTIDISCIPLILNARI	**ATTIVITA' INTERDISCIPLINARI (SOFT SKILLS)**		

ECTS 51.9	ECTS 3.3	ECTS 4.8	ECTS

(N.B. La somma dei crediti annuali dovrebbe essere 60 CFU)

Data, 19. 10.2024

(firma dottorando/a)

Chiara Mussida

(firma supervisore)

PER PRESA VISIONE IL COORDINATORE:

Innovation in Labor Market Inclusion: Understanding and Reducing Youth NEET Risks

Youth disengagement from education and employment remains one of the most pressing structural challenges in advanced economies. Across Europe, a significant share of young people aged 15-29 are classified as NEET Not in Employment, Education, or Training reflecting not only individual vulnerabilities but also deeper institutional and territorial inequalities. My research seeks to understand how innovation in labor market policy can reduce persistent youth exclusion by integrating individual-level interventions with place-based strategies.

As a PhD researcher in Economics and Management of Innovation and Sustainability, I focus on the intersection of labor market dynamics, public policy design, and structural disadvantage. My current work examines the determinants of NEET status using Labour Force Survey microdata combined with regional indicators. Employing multilevel econometric models, I analyze how individual characteristics such as education, gender, and migrant background interact with contextual territorial factors. This approach allows me to move beyond purely individual explanations and quantify the role of structural disadvantage in shaping youth labor market outcomes.

A central contribution of my research is the development of a composite index of structural disadvantage that aggregates early school leaving rates, low-work-intensity households, and regional employment conditions. By capturing cumulative territorial vulnerability, this index provides a framework for evaluating how regional disparities amplify individual risks. The results show that while individual characteristics strongly predict NEET status, structural disadvantage significantly increases the probability of youth disengagement, contributing to persistent inequalities across regions.

These findings raise an important policy question: how can innovation in labor market inclusion be designed to address both personal and structural barriers? Traditional active labor market policies often focus on individual upskilling and employability enhancement. However, without addressing territorial constraints such as weak local labor demand or intergenerational disadvantage these interventions risk limited effectiveness. Innovation, in this context, means rethinking policy architecture: integrating data-driven targeting, cross-institutional coordination, and place-based approaches that respond to regional conditions.

My interest in the NBER Innovation Research Boot Camp stems from the opportunity to strengthen this research agenda within a rigorous and collaborative environment. The Boot Camp's focus on innovation aligns directly with my objective of developing empirical tools that inform scalable, evidence-based interventions. I am particularly interested in refining identification strategies that can move from descriptive multilevel analysis toward causal evaluation of policy reforms. Exposure to leading scholars and peer researchers would help me sharpen both the methodological robustness and policy relevance of my work.

Beyond academic research, I have worked with public authorities and civil society organizations, translating quantitative findings into accessible insights for policymakers and stakeholders. This experience has reinforced my conviction that innovation in labor market inclusion requires not only technical rigor but also effective communication and interdisciplinary collaboration. Policies must be grounded in data, but they must also be politically and institutionally feasible.

Participation in the NBER Innovation Research Boot Camp would allow me to advance three core goals: first, to deepen my econometric toolkit for evaluating labor market reforms; second, to integrate innovation theory more explicitly into empirical labor research; and third, to contribute comparative insights from European youth labor market dynamics to broader discussions on inclusive growth. I am motivated to engage actively, receive constructive feedback, and contribute to discussions that bridge academic research and practical policy innovation.

Ultimately, my research is driven by a broader commitment to reducing structural inequalities and promoting inclusive economic participation. Youth disengagement is not merely a transitional issue; it has long-term consequences for productivity, social cohesion, and democratic stability. By combining rigorous empirical methods with innovative policy design, I aim to contribute to solutions that enable more equitable labor market transitions for young people.

I believe the NBER Innovation Research Boot Camp offers a unique environment to advance this mission, and I would be honored to participate.