



**UNIVERSITÀ
DEGLI STUDI
DI BERGAMO**

Area Risorse
Umane

Settore Gestione Giuridica del Personale
Servizio Personale TA e Collaboratori

CHANCELLOR'S DECREE

*Data that can be deduced from the registration in the protocol:
Repertoire Number, Protocol Number, Title,
Class File Attachments and References*

Object: Public selection based on qualifications and interview for the awarding of no. 18 Experienced grants for conducting research pursuant to art. 22 of law no. 240/2010 at the Departments at the University of Bergamo – Pica Code: 24AR028

THE CHANCELLOR

- GIVEN Law No. 168 of 9 May 1989 laying down rules on the "*Establishment of MIUR*";
- GIVEN Law No. 240 of 30 December 2010 "*Norms in terms of organization of universities, of academic personnel and their recruitment, as well as mandate to the Government to subsidize quality and efficiency of academic systems*", in particular art. 22 on research grants;
- GIVEN the current Statute of the University of Bergamo;
- GIVEN the University's current Regulations for awarding grants for conducting research;
- GIVEN Ministerial Decree Prot. No. 102 of 09 March 2011, recorded at the Court of Auditors on 13 May 2011, which revalued the minimum gross annual amount of grants for conducting research;
- GIVEN Decree-Law No. 192 of 31 December 2014 "*Extension of terms provided for by legislative provisions*", converted, with amendments, by Law No. 11 of 27 February 2015 and, in particular, Art. 6 paragraph 2 bis which extended by two years the total duration of grants established under Art. 22 of Law No. 240/2010, taking it from four to six years;
- GIVEN
- the D.L. No. 36/2022, converted, with amendments, into Law no. 79/2022, which in art. 14 paragraph 6-quaterdecies establishes that "for one hundred and eighty days following the entry into force of the decree conversion law, limited to the already programmed resources on the mentioned date, or approved by the respective governing structures within the mentioned term of one hundred and eighty days, universities [...] may call for awarding procedures of research grants pursuant to article 22 of law no. 240, in the current text before the entry into force of this decree conversion law";
 - the Legislative Decree n. 198/2022 and art. 6 paragraph 1 establishes that the transitional regulation relating to the possibility of calling for research grants has been extended until 31 December 2023;
 - the Legislative Decree n. 215/2023 and art. 6 paragraph 4 establishes that the transitional regulation relating to the possibility of calling for research grants has been extended until 31 July 2024;
 - the Legislative Decree 71/2024 which in art. 15 establishes that the transitional regulation relating to the possibility of calling for research grants has been extended until 31 December 2024;

Referring also to:

- the University's Code of Ethics issued with Chancellor's Decree. Prot. No. 14405/I/003 of 19.7.2011 and amended with Chancellor's Decree. Rep. No. 262/2018, Prot. No. 60030/I/003 of 12.4.2018;
- the University's Regulations on research integrity and ethics, enacted with Chancellor's Decree Index No. 387/2016 of 18 July 2016;
- the University's Patent Regulations enacted with Chancellor's Decree Index No. 390/2016 of 19 July 2016 and amended with Chancellor's Decree Index No. 158/2018 of 26 February 2018 and with Chancellor's Decree Index No. 421/2020, of 9.9.2020;
- the Legislative Decree n. 215/2023 and art. 6 paragraph 4 establishes that the transitional regulation relating to the possibility of calling for research grants has been extended until 31 July 2024;



GIVEN

- the Legislative Decree of 30 April 2022, n. 36, converted with amendments by law 29 June 2022, n. 79, in particular art. 14, paragraphs 6-bis and 6-ter, which establishes that the updating of the scientific-disciplinary groups and sectors is carried out by decree of the Minister, upon proposal of the CUN, on a three-yearly basis and that starting from the date of adoption of the decree referred to in paragraph 1 of article 15 of law 30 December 2010, n. 240, as amended by paragraph 6-bis of this article, references to competition sectors and competition macro-sectors contained in legislative and regulatory provisions are intended to refer to scientific-disciplinary groups;
- the Ministerial Decree n. 639 of 05.02.2024 "Decree containing the determination of the scientific-disciplinary groups and the related declarations, as well as the rationalization and updating of the scientific-disciplinary sectors and the attribution of the latter to the scientific-disciplinary groups, pursuant to 'art. 15, of law 30 December 2010 n. 240" with which the Ministry of University and Research determined the rules of correspondence between the new scientific-disciplinary groups and the macro-sectors and competition sectors referred to in the ministerial decree of 30 October 2015, n. 855;

ACQUIRED the resolutions of the Councils of the Structures involved, referred to in Annex A which approved the annual research projects and resolved on the requirements for candidates' admission to the selection;

GIVEN the resolutions of the Academic Senate and of the Board of Directors reported in Annex A which approved the research grants activation in various Departments;

ASCERTAINED the financial backing reported in annex A;

DECREES

Article 1

Call for public selection

18 public selections are launched based on qualifications and interview for the awarding of No. 18 grants for conducting research pursuant to Art. 22 of L. No. 240/2010 with a contract under private law as specified in Annex A to this notice which constitutes an integral part thereof.

Each grant is paid to the contract holder in monthly instalments of equal amount.

The research projects are described in Annex A of this call constituting an integral part hereof.

Article 2

Requirements for admission to the selection

The selection procedure is open to **scholars in possession of a professional scientific curriculum suitable for conducting the scientific research provided for by this call, as well as of the following requirements:**

- **3rd cycle degree: PhD (see the following Annex A).**
- **knowledge of one or more foreign languages (see the following Annex A).**

The qualifications obtained abroad must be recognised as valid in the Italian territory.

As regards qualifications obtained abroad that have not already been recognised in Italy with formal procedure pursuant to the applicable laws, the Commission is competent to assess the equivalence – as to the nature, level and subject correspondence (CUN Area for PhD qualifications) – to the qualifications required by this call, for the sole purposes of admission to the present selection.

As regards qualifications obtained abroad, required by the call for the purpose of admission to this selection, the applicant:

- in the event of qualifications already recognised as valid in the Italian territory, must indicate in the application **the details of the provision attesting the occurred recognition** pursuant to the applicable laws.
- in the event of **qualifications not yet recognised**, must proceed with these indications:
Apply to the University of Bergamo for the equalization of the training course and the release of the final parchment through the instructions published at the following link:



<https://www.unibg.it/ricerca/lavorare-ricerca/dottorati-ricerca/iscriversi-dottorato>

The University of Bergamo can recognize a PhD degree just in case of relevance to the ones already activated at the University of Bergamo. For the other PhD degrees offered by Italian Universities, refer to the link: <https://www.university.it/index.php/public/cercaOffPL>.

After obtaining the equivalence, the candidate must request the "Certificate of Comparability" from the CIMEA (Academic Equivalence Mobility Information Center), by registering on the Center's website via the link that will be provided by the undersigned Administration.

In order to ensure the widest participation in the selection, the candidate with a qualification not yet recognised or with the recognition procedure in progress, **must obligatorily attach to the application, under penalty of exclusion, one or more of the following documents:**

- **a certified copy of the statement of qualification equivalence**, issued by the competent Italian diplomatic and consular authorities abroad;
- **the diploma supplement or transcript of record**, legalized and written in Italian or in English;
- **a copy of the qualification** with a translation into Italian or English.

In the event of qualifications not yet recognized, the candidate is admitted with reserve; if the candidate turns out to be the winner, he must start the equivalence procedure above indicated, within the term of 90 days since the subscription of the contract.

Moreover, the applicant is also required:

- **to be at least 18 years old;**
- **to be in possession of civil and political rights;**
- **to have no criminal convictions or ongoing criminal proceedings that would prevent, in accordance with the regulations in force, the establishment of an employment relationship.**

The selective procedure does not allow admittance to:

- those who have a degree of kinship or affinity, up to and including the fourth degree, with a professor from the relevant structure, or with the Chancellor, the General Manager or a member of the University's Board of Directors;
- those who have been holders, including any renewals, of research grants awarded pursuant to Art. 22 of Law No. 240/2010 for a period which, added to the duration of the contract provided for by this call, exceeds a total of six years, except for the period in which the grant was used in coincidence with the PhD within the maximum legal duration of the relevant course;
- those who were contracted as research fellow or fixed-term researcher as per ss. 22 and 24 of Law 240/2010 at the University of Bergamo or other Italian public, private or online Athenaeums, as well as any other Body indicated in para 1 of s. 22 of Law 240/2010 for a length of time which, if summed to the duration of the contract in this announcement, exceeds 12 years in total, albeit not consecutive; periods of time spent on maternity or sick leaves do not count to the purpose of the duration of the aforementioned relationships, in accordance with current Laws;

The applicant enrolled in a Diploma di Laurea (DL), Diploma di Laurea Specialistica (LS), Laurea Magistrale (LM), PhD with study grant or medical specialisation in Italy or abroad can participate in the selection object hereof; should the applicant be the winner, the research grant will be awarded subject to withdrawal from studies or PhD study grant.

Pursuant to art. 22 paragraph 2 of Law 240/2010 cannot be recipient of the grants the regular personnel at universities, institutions and public entities of research and experimentation, the Italian National Agency for new technologies, energy and sustainable economic development (ENEA) and the Italian Space Agency (ASI) and institutions whose scientific specialization diploma was recognised equivalent to a PhD pursuant to the fourth paragraph under article 74 of Presidential Decree of 11 July 1980, No. 382.

The holder of the grant can attend PhD courses whose subjects are related to the research activities connected with the grant, upon prior evaluation of the Structure of reference. However, the research grant is incompatible with the enjoyment of the PhD study grant.



These requirements must be met on the date of expiry of the deadline for submitting the application for the admission to this selection.

This Administration guarantees equality and equal opportunities between men and women as to access to employment and treatment at work.

Article 3

Exclusion from the procedure

The following reasons are causes of exclusion:

- lack of signature on the application form;
- lack of admission requirements as provided for by Art. 2;
- failure to meet the procedures for submitting the application as mentioned under the following Art. 4.

The applicant is admitted if selected; should additional investigations be necessary, the applicant must regularize his/her application within the time peremptorily established.

The Administration may decide to exclude the applicant from the selection launched with this call, at any time, by reasoned Chancellor's Decree.

Article 4

Terms and conditions for submitting application

Under penalty of exclusion applications for participation in the competition, along with the relevant qualifications held and the relevant scientific publications, shall be submitted online through the following online application procedure:

<https://pica.cineca.it/unibg/>

The candidate will be able to register and access the platform using the Public Digital Identity System (SPID - security level 2). In case the candidate does not have one, he or she can request it according to the procedure indicated on the website www.spid.gov.it. Alternatively, the candidate can register and log in using the credentials released directly by the PICA platform.

It is of utmost importance to provide a valid email address in order to enable the registration process on the electronic procedure.

Applicants shall upload all personal and professional data as requested by the application procedure; all documents must be uploaded in PDF format (.pdf). Each applicant can produce a maximum of no. 40 publications and a maximum of no. 40 other titles and qualifications.

Failure to comply with the online application procedure will result in exclusion of the applicant.

Prior to final submission, and within the given deadline for applications submission, the online application procedure allows to modify and save the inserted information in a draft copy.

Confirmation of final submission date will be certified by an automatic notification email.

Submissions after the given deadlines will not be accepted by the system, as the online application procedure won't be accessible.

Each application will be given a registration number. For all further communications, the registration number shall be quoted along with the code of the research grant competition.

The online application and the submission procedure must be completed by and no later **than 12.00 (Italian time) on the thirtieth day** from the notice publication date on the University website. Should the indicated deadline fall on a non-business day, it shall be postponed no later than 12.00 (Italian time) of the next business day.

The submission of the online application must be completed and finalized:

- **no digital signature:** in this case the candidate has to download the pdf file of the application by the system; the PDF file shall not be modified in any way, it is to be printed, signed in original, scanned in a pdf file and uploaded again on the website.
- **sign the application on the server using ConFirma service:** in order to sign digitally the application, it is necessary to have a hardware (e.g. smart card or USB with digital signature certificate issued by an approved certification body) compatible with ConFirma service; after signing, applicants can download the signed pdf application.
- **sign the application digitally on your PC:** In order to sign digitally the application, it is necessary to have a hardware (e.g. smart card or USB with digital signature certificate issued by an approved certification body) and a software for digital signatures in order to create a pdf.p7m file



from the pdf file downloaded from this site. The pdf.p7m file must be uploaded in the website again;

- **in case of submission of the application through SPID**, it will not be necessary to sign the application form as it is automatically acquired by the procedure.

The application must contain all the required data by the system and must be signed and accompanied by a valid identification document of the candidate, under penalty of exclusion.

For any technical problems, contact support through the link available in the footer <https://pica.cineca.it/unibg>.

Article 5 Admission application

The applicant, filling the application, must declare, under his/her own responsibility, pursuant to what provided for by Presidential Decree 445/2000 and following amendments and integrations, as follows:

- his/her citizenship;
- to possess the qualifications mentioned in Annex A, indicating the CUN Area of PhD, the date on which it was obtained, the Institute that issued it and the final vote/assessment achieved; the applicant with qualification(s) obtained abroad must declare to have obtained the relevant recognition indicating in the application the details of the provision or must annex the required documentation according to what specified hereby;
- to possess any other requirements as mentioned in Annex A;
- to possess other qualifications useful for the assessment;
- to know the foreign language required by this call;
- in case of Italian citizenship: to be enrolled in the electoral lists, specifying the Municipality of belonging and possibly specifying the reasons for non-inclusion or cancellation from the same lists; in case of foreign citizenship: to possess civil and political rights in the Country of belonging or provenance, or the reasons for non-possession of the same;
- not to be excluded from the active political electorate;
- to have no criminal convictions, or declare possible convictions undergone, indicating the details of related sentences, and any pending criminal proceedings;
- to be/not to be a state employee, specifying to be/not to be a regular employee at Universities and other bodies as mentioned in Art. 22 of L. No. 240/2010;
- to have no degree of kinship or affinity, up to and including the fourth degree, with a professor from the relevant structure or with the Chancellor, the General Manager or a member of the University's Board of Directors;
- if enrolled in a Diploma di Laurea (DL), Diploma di Laurea Specialistica (LS), Laurea Magistrale (LM), PhD with study grant or medical specialisation, in Italy or abroad, to be aware that, in the event
- of awarding of the grant, attendance at such courses and the use of the PhD study grant are incompatible with the holding of the contract;
- to hold research grants awarded pursuant to Art. 22 of Law No. 240/2010;
- to hold contracts as fixed-term researcher pursuant to Art. 24 of Law No. 240/2010;
- to have attended a PhD indicating the period, University, date on which the qualification was obtained, cycle, exact title of the course and CUN Area;
- period of enjoyment of any PhD study grant;
- address to which communications concerning this competition are to be sent; it is mandatory to indicate a personal e-mail address as well;
- possible request to conduct the interview via videoconference indicating the phone number and motivation.

In the application for participating in the competition, the applicant, pursuant to Law No. 104 of 5 February 1992, must specify any aid necessary in relation to his/her needs as well as any need for additional time for the interview.

When submitting the application for participating in the selection, the applicant must annex the following documents:

1. a photocopy of the applicant's identity document in course of validity;
2. *curriculum vitae* in European format, dated and signed;



3. a list, signed by the applicant, of the publications and other research products, and other titles considered appropriate for the purposes of the selection such as specialisation degrees, certificates of attendance to postgraduate courses, obtained in Italy or abroad, contracts, study grant or research assignments both in Italy and abroad (cf. Annex B);
4. any publications, other research products or other titles that the candidate wishes to assert to the purpose of the procedure, numbered in progressive order matching the relating numbered list;
5. in the event of foreign applicant, it is necessary to annex: a copy of the residence permit (if the applicant is already in its possession).

For the abroad qualification, required for the purposes of selection admission, it's also necessary:

- in the event of qualifications already recognised as valid in the Italian territory, to indicate in the application **the details of the provision attesting the occurred recognition** pursuant to the applicable laws;
- in the event of qualifications not yet recognised attach to the application **one or more of the following documents**: a certified copy of the statement of qualification equivalence, issued by the competent Italian diplomatic and consular authorities abroad; the diploma supplement or transcript of record, legalized and written in Italian or in English; a copy of the qualification with a translation into Italian or English.

As regards all other qualifications obtained abroad which the applicant intends to provide for the selection as required by the call, it is necessary to annex to the application a copy of the qualifications. Each annex must be in PDF format and must not be larger than 30 MB.

Pursuant to Law No. 183/2011, the Administration cannot accept or request certificates, but only declarations in lieu of certifications or affidavits submitted in substitution of the actual certificates signed by the applicant and submitted together with an unauthenticated photocopy of the applicant's valid identify document. The Administration has the right to carry out suitable controls on the truthfulness of the contents of the declarations in lieu pursuant to what provided for by Presidential Decree No. 445/2000.

The requirements and the qualifications must be owned on the date of the expiry of the call.

It is mandatory to indicate a personal e-mail address to which the communications concerning this selection will be sent. Any variation of said address must be promptly communicated to the Selections Office and Legal Management (Servizio Personale TA e collaboratori).

Article 6 Examining Commission

The Examining Commission is appointed with Chancellor's decree, upon proposal of the Structure's Council, at the expiry of the deadline for submitting the application.

The Commission is authorized to carry out the online procedure, in the understanding that such method can be adopted until the conclusion of the relevant works, guaranteeing the security and traceability of communications.

Article 7 Selection

During its first meeting, the Examining Commission will establish the assessment criteria and procedures explicitly, according to what provided for by the call, fixing a minimum score for admission to the interview.

The overall assessment is expressed in hundredths, as indicated hereafter:

- up to a maximum of 60 points for qualifications and scientific-professional curriculum; to that end, the following will be object of assessment:
 - graduation vote;
 - PhD (if not already provided for as requirement for admission);
 - specialisation degrees and certificates of attendance to postgraduate courses, obtained in Italy or abroad;
 - publications and other research products;



- documented research activities – as long as the beginning date and duration of the activities are duly certified – carried out at the premises of public and private subjects with contracts, study grants or assignments, both in Italy and abroad;
- up to 40 points for the interview.

Within the context of its autonomy, the Commission can integrate the above, depending on the research project and on what provided for by this call.

The Commission will evaluate, in particular, what is indicated in Annex A

The applicants will be informed before the interview on the results of the assessment of the qualifications.

The Commission reserves the right to carry out the interview via videoconference, through the use of IT and digital tools, guaranteeing the adoption of technical solutions that ensure the publicity of the same, the identification of the participants, as well as the security of communications. and their traceability. Failed connection at the time established or late connection, unless due to force majeure, will be considered as a renunciation to participate in the selection.

During the interview, the Commission will verify the applicant's ability to cover the topics and themes related to the research project and his/her knowledge of at least one foreign language, according to what provided for by the call.

The interview program is indicated in Annex A

The assessment of the knowledge of the foreign language (or foreign languages) as provided for by this call will be carried out during the selection according to the modalities established by the Commission.

The Commission reserves the right to verify the knowledge of the Italian language for foreign candidates; in this case, Italian language knowledge will be ascertained under ineligibility penalty and will not compete for the final score, unless otherwise established by the Commission

The date and place of the interview will be communicated with at least a 20-day notice through a communication published on the website of University of Bergamo <http://www.unibg.it>, under the section "Concorsi e selezioni-Assegni. Borse e contratti di ricerca-Assegni di ricerca" supervised by the Servizio Assegni di ricerca.

This notice is to all intents and purposes an official communication. Any changes related to the date of the interview will be communicated to the admitted applicants with at least a 20-day notice through the publication of a communication on the University's website under the section "Concorsi e selezioni-Assegni. Borse e contratti di ricerca-Assegni di ricerca".

Failure to show up at the interview will be considered as a renunciation to participate in the competition for all practical purposes.

At the end of the works, the Commission draws up the list of the applicants examined, indicating the votes obtained during the interview.

The Commission will draft the merit list in descending order according to the overall final score, which is obtained by adding the score of the qualifications and the score of the interview.

Applicants will be inserted in the merit list if they obtain at least 30 out of the 40 points available for the interview.

In the event of equal score, the PhD or equivalent qualification obtained abroad will constitute a preferential qualification, if not required for admission; in the event of equal merit, the younger applicant will be preferred.

The merit list is approved, under the condition precedent of verifying the requirements provided for by the call, with Chancellor's Decree and published on the website under the section "Concorsi e selezioni-Assegni. Borse e contratti di ricerca-Assegni di ricerca". The term for submitting any appeals will run from the date of publication.

Should the winning applicant renounce to or withdrawal from the contract, the grant can be awarded to successful applicants according to the order of the merit list, upon prior resolution of the Research Structure.



Article 8

Signing of the contract and withdrawal

The winning applicant, in possession of the mentioned requirements, will sign an autonomous work contract under private law with effect, normally, on the first day of the month following the month in which the acts are approved.

As regards foreign applicants needing a residence permit, the date of beginning of the contract will be postponed and subject to the completion of the issuing procedure of said permit.

In the case of conditional admission for the achievement of an abroad qualification not recognized as valid in Italy, the winner, before signing the contract, must produce the required documentation the terms peremptorily established

The winner of the selection, convoked by the Administrative Office to sign the contract, will lose the right to the grant for collaboration in research activities if he/she does not state to accept the contract or does not begin the activity within the established term, without prejudice to health reasons or causes of force majeure duly and promptly documented.

Each grant as mentioned under Art. 1 can be renewed, under the terms and conditions provided for by the above mentioned Regulations; in any case, the relationship established pursuant to Art. 22 of Law No. 240/2010, including the possible renewal, cannot last more than six years, including the possible renewal, with the exclusion of the period in which the grant was used in coincidence with the PhD within the maximum limit of the legal duration of the relevant course.

Article 9

Rights and obligations of the grant holder

The employment relationship is governed by an individual contract, according to what provided for by the applicable laws and by the University's Regulations.

The research activity is flexible, it has a continuous nature, not merely occasional, and is carried out under the leadership of the Scientific Director, with autonomous conditions as to the research programme and its realisation, without any predetermined working hours.

The grant holder must refer to the Research structure that requested the activation of the contract.

The research activity of the grant holder is carried out within the context of the relevant Structure and in other Structures of the University on the basis of the research programme. Any research activities conducted outside of the University must be approved by the Council of the Research structure.

A period of permanence abroad is allowed at one or more qualified universities or research institutes, upon prior authorisation of the Council of the Research structure. During the period spent abroad, the amount of the grant will be increased by fifty percent to be charged to the Structure of reference or to the funds assigned to the Research structure.

The grant holder can participate in all the activities programmed by the Research structure for the promotion of researches and the dissemination of relevant results; he/she can be a member of the profit exams commissions, in quality of expert.

The Research structure must provide the grant holder all necessary support for realising his/her research programme, guaranteeing access to the equipment, the necessary resources and the use of the technical-administrative services.

The grant holder must comply with what provided for by the University's applicable Regulations on research integrity and ethics.

The winner of the selection who is entitled to the grant, at the time of the signature of the individual contract, should be committed, under penalty of forfeiture of the right to the research grant, to confidentiality and preventive transfer to the University of all intellectual property rights relating to the results produced and/or achieved during the research activities carried out at the University and she/he has the right to be recognized as the author of the his/her results achieved and/or products. The University recognizes the application of the same economic conditions that the University Patent Regulation grants to its Professors/Researchers.

The research fellow may participate in activities performed on behalf of third parties pursuant to art. 66 of Presidential Decree 382/80, in the context of issues related to its project, and the distribution of related proceeds, in accordance with the current University Regulations on the subject.



Article 10

Taxes, welfare, insurance and mission

With reference to taxes, the grants are subject to what provided for under Art. 4 of Law No. 476/1984, while as regards welfare, they are subject to what provided for under Art. 2, paragraph 26 and following, of Law No. 335/1995, and following amendments. With reference to mandatory maternity leave, they are subject to what provided for by the Decree of the Ministry of Labour and Welfare of 12 July 2007, published in the Official Gazette No. 247 of 23 October 2007, and, as regards sickness leave, they are subject to what provided for by Art. 1, paragraph 788, of Law No. 296 of 27 December 2006, and following amendments.

In the period of mandatory maternity leave, the bonus paid by INPS pursuant to Art. 5 of the mentioned Decree of 12 July 2007 is integrated by the University up to the payment of the total amount of the research grant.

The University will cover the grant holder's accident insurance and civil liability toward third parties insurance within the scope of his/her research activity.

The covering of the grant holder's mission expenses is financed through the funds of the Scientific Director in charge or the Research structure, according to the modalities provided for by the University's regulations as to missions.

Article 11

Processing of personal data

In accordance with articles 13 and 14 of Regulation (EU) 2016/679 (GDPR), on the protection of personal data, and with D. Lgs. n. 196 /2003 and subsequent amendments, it is made known that data is controlled and managed by the legal representative of the University of Bergamo, via Salvecchio 19, - 24129 Bergamo.

Data will be collected exclusively for the present bid purposes and will be kept only for the necessary time to complete the relevant procedures. The data treatment controller will be appointed within the managing unit in charge of bidding procedure, who will carry out the treatment with all due respect of propriety, legitimacy, scope, transparency and confidentiality of the treatment; and data will be used exclusively for purposes connected to the selection and further conferment of the role and possible contract drafting, as well as management of the following employment position, in compliance with current regulations. Data will be kept for the necessary time to accomplish the selection purposes, subject to the application of norms on document retention, and will be transferred uniquely to public administration bodies directly concerned with the juridical and economic position of the selected applicant, treated in compliance with current regulations and used for personal, welfare, insurance and fiscal position management.

The data, not subject to profiling, will be processed by the appointed personnel through the acquisition of documents in paper and electronic form and through archiving procedures, including computerized ones, which will guarantee their confidentiality; the data processing will be carried out with related organization and processing logics and high security standards will be adopted. Candidates who have provided their data will be able to access them and exercise the rights provided for by the art. 16 to 22 from the EU GDPR 2016/679. Any safeguard request can be addressed to the University Data Protection Officer, who can be contacted through the university website (Privacy and Personal Data Protection section), at e-mail dpo@unibg.it. In addition to the right of complaint which can be presented to the Italian Data Protection Authority, Piazza Venezia 11, 00187 Roma.

By presenting their application, candidates thereby authorise and fully consent to publication on the University institutional website of all information concerning the current bid, their own data and the contents of their CV in accordance with 111-bis of D. Lgs.196/2003 stating that, within the scope limits defined by art. 6, par. 1, letter b), of the Regulation, consent is not due for personal data present in a submitted CV.

Article 12

Person in charge of the procedure

The Person in charge of the selection procedure within this call is Isabella Arfiero of Personale TA e Collaboratori, Viale Papa Giovanni XXIII, 106 - 24121 Bergamo, phone (+39) 035 2052 594 - 583 - 878, e-mail address: assegni.ricerca@unibg.it.



Article 13 Publication

This call is published in the University's Official Registry, on the website of the Conference of the Italian University Chancellors (www.cru.it), on the website of the Ministry of Education, Research and University (MIUR) at the link <http://bandi.miur.it>, and on the website of the European Union at the link <http://ec.europa.eu/euraxess> in the form of a notice.

The full competition and related annexed forms are available on the website of the University of Bergamo www.unibg.it under the specially devoted section "*Concorsi e selezioni-Assegni. Borse e contratti di ricerca-Assegni di ricerca*".

The call is also published on "Piattaforma Integrata Concorsi Atenei" (PICA) - link <http://pica.cineca.it/unibg/> from which it is possible to fill the application online for participation at the selection.

Article 14 Final provisions

For all matters not provided for by this call, the following will be applied: Law No. 240/2010 and following amendments and integrations, the University's Regulations on the awarding of research grants, the University's Regulations in force, and the Regulations on employment relationships in the public administration.

Bergamo, as per protocol registration

THE CHANCELLOR
(Prof. Sergio Cavalieri)
Documento firmato digitalmente ai sensi
dell'art. 24 del D. Lgs. 82/2005



ANNEX A

RESEARCH PROJECT - CODE 1

"Digital twin for green hydrogen process development"

Research structure: Department of Engineering and Applied Sciences

Department resolution: 28.05.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEGN0EXP24BG- CUP F53C24000110005

Duration of the grant: 24 months

Scientific area: 09 - Industrial and Information Engineering

Competition sector: 09/IIND-06 Fluid machinery, energy systems and power Generation

Scientific Disciplinary Sector: IIND-06/A - Fluid Machinery

Scientific director: Prof.ssa Giovanna Barigozzi

Entry requirement: Dottorato di ricerca Area CUN 09 - Ingegneria Industriale e dell'informazione.

Knowledge of the language: English.

Additional qualifications evaluated by the Commission:

Candidates must prove a good knowledge of numerical methodologies and of approximation principles pertaining to the design and evaluation of machines, models and systems. The candidates must demonstrate to have already faced numerical and/or experimental activity to study complex problems in the field of fluid machinery, related products and systems.

Interview schedule:

The interview will be dedicated to assess the knowledge in the field of the numerical modeling of energy systems and plants.

Description of the research project:

The main step towards the creation of a zero net carbon society is the implementation of renewable energy sources. Decarbonization is underway, in fact renewable energies have already been becoming competitive with fossil fuels. However, their intermittency, along with the requirement of grid balancing, demand for a path toward the molecule, i.e. hydrogen.

Hydrogen (H₂) is emerging as a promising clean energy carrier. However, various technical safety regulations governing the use of hydrogen impose specific limits on pressure and temperature to ensure the safe handling, storage, transportation, and utilization of this highly reactive gas.

National plans, EU actions, worldwide strategies have been set in the current agendas towards carbon neutral society. According to the agreement and subsequent predictions of several governments, hydrogen-based systems and applications could significantly expand their presence on the market in a relatively short-time. One of the main challenges might be preparing society to such a great everyday occurrence.

Technical feasibility and reliability of the network needs to deal with delivering, storing, and utilization of hydrogen. From engineering point of view, safe and efficient strategies must be developed to foster the H₂ deployment.

Technological advances concerning production, storage, distribution, and usage of hydrogen have been permeating the literature of the last decade. However, further advancement is still needed. The



transportation sector, where the focus is still set on multiple technologies, such as liquefied hydrogen, hydrides, ammonia as a hydrogen carrier, compressed hydrogen still requires research activity to set reliable solutions and performance prediction for each application. Deployment, networks, fueling and defueling are then to be considered.

This project aims to develop a Digital Twin using robust computational fluid dynamics (CFD) models and data gathered from existing literature. The validated results from these models will serve as benchmark data for the Digital Twin's creation. The objective of this Digital Twin is to accurately predict temperature and pressure distributions within H₂ tanks across diverse operational scenarios, while also minimizing computational expenses.

Developing the digital twin will involve several steps. Initially, computational fluid dynamics (CFD) software is employed to establish a numerical framework capable of simulating fluid flow behavior and heat transfer within hydrogen tanks during fueling, defueling, and transportation. This entails incorporating transient simulations with various equations of state (e.g., Redlich-Kwong, Soave-Redlich-Kwong, Peng-Robinson) and turbulence models to accurately replicate flow behavior. Subsequently, the simulation framework is validated against experimental data from existing literature to ensure its accuracy and reliability. Next, to create the digital twin, the 1D model is integrated with corresponding-time data streams from Unsteady-CFD simulation of the hydrogen tanks, including local and averaged monitoring of temperature, pressure, and flow rates. The digital twin continually updates itself based on this data, providing a virtual representation of the physical system. The study will consider different parameters such as tank typology, aspect ratio, material characteristics, and operational strategies, as well as external conditions i.e. room temperature.

The final digital twin could effectively forecast temperature and pressure distributions within hydrogen tanks under various conditions. This facilitates improved decision-making, operational optimization, and enhanced safety in hydrogen storage and transportation processes.

The project activities will be carried out in four technical parts:

PART 1: a thorough literature survey will provide references and short descriptions of the current experience and capabilities already presented in the literature. The topics investigated concern the main key issues, namely: the compression phase, the storage, the deployment techniques, feasibility, critical issues [Month 1-3]

PART 2: the selected simulations and calculations tools will be assessed against reference simple test cases to demonstrate the status of the methods and settings. [Month 2-12]

PART 3: Afterward testing well-established solutions, key parameters setting the performance and reliability level of technical solutions will be varied to perform sensitivity analysis intended for promoting innovative and unconventional technologies and designs. Main findings will be summarized in the mid-term report. [Month 10-20]

PART 4: Newly defined overall methodology of handling will be explored, compared and deeply discussed, producing a final report. [Month 16-24]



RESEARCH PROJECT - CODE 2

***"The discipline of start-up incorporated as limited liability company:
new questions of corporate law."***

Research structure: Department of Law

Department resolution: 06.05.2024

Resolution of the Academic Senate: 29.01.2024

Resolution of the Board of Directors: 31.01.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEGN024ANDIGIU

Duration of the grant: 12 months

Scientific area: 12 – Law studies

Competition sector: 12/GIUR-02 Business and Navigation Law

Scientific disciplinary sector: GIUR-02/A Business Law

Scientific director: Prof. Enrico Ginevra

Entry requirement: Dottorato di ricerca in Area CUN 12 – Scienze giuridiche.

Knowledge of the language: English.

Additional qualifications evaluated by the Commission:

PhD relating to the subject of Academic discipline: IUS/04 – Business Law

Interview schedule:

The interview will be designed to ascertain the competence related to general principles of Commercial Law the knowledge related to the topics covered by the research project and the candidate's research aptitude. The interview will be held in Italian or English.

Description of the research project:

The object of the research project is the identification and clarification – from a de iure condito perspective – and subsequent modification and integration – therefore from a de iure condendo perspective – of the corporate discipline of the innovative SME: for the purpose of preparing an organic Statute, inspired by sustainable economic efficiency objectives. The formation of an innovative SME finds necessary inspiration from the prior formulation of a creative idea, susceptible to future industrialization. On the other hand, it is a widespread statement that to guarantee the technical progress of the entire society it is necessary that inventive ideas do not remain confined to the world of science, but become part of the entrepreneurial world, so as to be implemented on the market. In this regard, in order to facilitate the development of an innovative market, a regulatory system that wants to be efficient should favor the so-called technological transfer from research centers to companies: and, among these, to start-ups. In this sense, it is therefore desirable (as highlighted at the Community level) that the centers in question carry out a scouting activity for the ideas developed, thus playing the role of intermediaries between these and the world of production, as well as the market. However, if the entrepreneurial development of innovative ideas is characterized by the need for huge risk financial resources, the historical sources of financing for SMEs, i.e. the funds lent by industrialists and banks, are inadequate for the purpose. Small entrepreneurs must therefore resort to alternative forms of capitalization, which sometimes also allow them to reduce the costs of "classic" intermediation services. At present, the Italian legislator has implemented fragmentary interventions to regulate some recently widespread practices and/or



modify the regulations of pre-existing legal figures. From a first point of view, there is a growing need to allow the acquisition as equity of nonmonetary resources that represent the same innovative idea to be industrialized. Such resources, however, aren't easily subject of a traditional contribution, given the problems they present in terms of respecting the rules of so-called "effectiveness of capital". However, they can still be contributed through so-called contributions "atypical" (i.e. which do not contribute to forming the share capital), with consequent regulatory problems. A first is that relating to the assignment of shareholding, with the doubt whether it can be adequately resolved through the redistribution of shareholding only to members who make traditional contributions. Added to this is the question relating to the opportunity of maintaining the same legal corporate capital system, for which there may be prospects of, if not actually being overcome, at least being supported by other organizational rules (think, for example, of systems based on capital ratios). From a different perspective, the trends of the new finance push towards the opening of corporate SMEs to the private savings market. For SMEs s.r.l., an exception to the ban on the public offering of shares and changes to the capital regulations are thus provided, establishing the right for s.r.l. to issue special categories of shares with different rights. With respect to the right to vote, among other things, the principle of its proportionality to the value of the shares is waived. To the s.r.l. Innovative start-ups, furthermore, the issuance of participatory financial instruments is expressly permitted, with a provision identical to that of the similar cases of joint stock companies. In this framework, it is a question of identifying the contours of this new financial structure of the SME, reconstructing the system underlying it, as formed by the institutions involved in the issues listed above. Then, in terms of governance rules, the reported possibility of offering PMI s.r.l. shares to the public. two sets of problems are connected, which must be verified: whether the discipline of the shareholders' meeting of the s.r.l. is suitable for proprietary contexts with a potentially widespread social base; if the broad statutory autonomy that characterizes limited liability companies in the field of governance is truly compatible with the potential public dissemination of shareholdings, or the more rigid regulation of joint stock companies should not be adopted. or an even different regulatory model. As for the time structure, it is expected that the first 4 months will be dedicated to the study of Italian literature on the topics of interest; in the next 4 we will proceed with the comparative comparison with the main European systems; in the last 4 months we will proceed with the drafting of a report illustrating the individual results.



RESEARCH PROJECT - CODE 3

"The Botanical Turn: A New Imaginary of the Garden and Landscape in Modern French Literature"

Research structure: Department of Letters, Philosophy, Communication

Department resolution: 28.05.2024

Resolution of the Academic Senate: 29.01.2024

Resolution of the Board of Directors: 31.01.2024

Gross annual amount: € 25.020,00

Financial coverage: ASSEGN024AN2DLFC - CUP: F53C24000110005

Duration of the grant: 12 months

Scientific area: 10 - Antiquities, Philology, Literary Studies, Art History

Competition sector: 10/Fran-01 French Language, Literature and Culture

Scientific Disciplinary Sector: FRAN-01/A French Literature

Scientific director: Prof.ssa Francesca Pagani

Entry requirement: Dottorato di ricerca di area CUN 10- Scienze Dell'antichità, Filologico-Letterarie e Storico-Artistiche.

Knowledge of the language: French.

Additional qualifications evaluated by the Commission:

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Interview schedule:

The interview will consist of a discussion regarding the candidate's curriculum vitae, qualifications, and any publications, aimed at assessing their specific skills relevant to the research program, as well as their language proficiency. Special attention will be given to verifying their knowledge of 18th and 19th-century French literature and related interdisciplinary themes.

Description of the research project:

The project aims to re-examine the relationship between garden and landscape in light of what we can define as the 18th-century "botanical turn." The evolution of botany, primarily through the studies of Linnaeus and Jussieu, leads to a new approach to the understanding and conception of the plant world, which reverberates across all fields of knowledge, including literature. The botanical turn, associated with the imagery linked to plant and especially floral symbolism handed down by artistic and literary tradition, generates a new relationship between the individual and nature. This occurs while, on one hand, the neologism "landscape" and its specificity—distinct from "country"—is established, and on the other hand, reflections on the English garden spread, which combine with a particular cognitive experience based on the senses and emotions. Through the collection and precise analysis of texts, the candidate must address the project's premise: the 18th-century epistemological shift redefines the conception and representation of landscape and garden in literature. The emblematic and seminal case of this approach is represented by Jean-Jacques Rousseau: while his influence on subsequent authors is well known, the specific relationship he establishes between the subject and nature through botany, and consequently the literary representation and creation of a garden-landscape-world where the particular merges into the universal, has not been thoroughly investigated. The aim of the research is to verify how this approach plays a key role in constructing the literary imagination related to the 18th and 19th-century garden and landscape and can represent a new theoretical perspective for re-reading Romantic authors and contributing to the contemporary critical debate.



RESEARCH PROJECT - CODE 4

"Curing and caring for dying: ethical-sociological analysis of the management and care of the dying patient in the health sector"

Research structure: Department of Letters, Philosophy and Communication

Department resolution: 16.04.2024

Resolution of the Academic Senate: 29.01.2024

Resolution of the Board of Directors: 31.01.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEGN02324EXP - CUP: F53C23000190005

Duration of the grant: 24 months

Scientific area: 14 - Political and Social Sciences

Competition sector: 14/GSPS-05 General Sociology

Scientific disciplinary sector: GSPS-05/A General Sociology

Scientific director: Prof.ssa Barbara Sena

Entry requirement:

Dottorato di ricerca in Area CUN 6 - Scienze mediche, o Area CUN 11 - Scienze storiche, filosofiche, pedagogiche e psicologiche, o Area CUN 14 - Scienze politiche e sociali.

Knowledge of the language: English. The Commission reserves the right to verify knowledge of the Italian language for foreign candidates.

Additional qualifications evaluated by the Commission:

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Interview schedule:

- The interview will focus on the topic of the research project, the candidate's research experiences and his/her methodological skills.
- Knowledge of the English language will also be tested during the interview.

Description of the research project:

The management of the dying patient represents a thematic area that is still relatively little explored. The topic is receiving increasing attention, not only due to the spread of chronic-degenerative diseases and the progressive aging of populations, but also due to the spread of health emergencies caused by catastrophes or pandemics, as in the recent case of Covid-19. Despite the growing interest in this area of care and the interdisciplinary development of the palliative approach to the dying patient, however, a series of prejudices still exist, not yet sufficiently demystified by literature and healthcare practice. They aim to decrease the relevance of end of life care because they conceive such activities lead "by definition" to the death of the patient, or to what in the principles of medicine is essentially seen as a "failure" of the treatment itself or, even worse, as something to be reduced to a sort of "buffet of choices" or "menu à la carte", to be presented to family members when they have to decide on end of life treatments for a relative.

The research aims to analyze the topic of the dying patient from the holistic point of view of care and cure, in order to identify the social, ethical, philosophical, cultural and medical factors that determine differences in approaches and practices, policies and health services in different national and international contexts.



The analysis will have to be carried out through both theoretical and empirical research work. In particular, the theoretical work will concern a systematic review of the existing literature in the sociological, ethical and health fields on the topic of dying management, aimed at deepening the factors studied up to now (theoretically and empirically) and the main results achieved. In particular, the analytical study will try to identify the more complex and controversial aspects that emerge from the literature on this topic, increasingly characterized by a growing ethical-social pluralism. This no longer allows us to take for granted that the patient, the physician, and the broader socio-medical and institutional context in which they are located must share a single and unilateral attitude and vision towards living and dying. At the same time, the research will try to explain why medicine today still finds hard to accept the management of the dying patient as a form of "cure" in all respects. The empirical work will consist of a mixed methods investigation of some significant case studies (health services such as hospices, intensive care, emergency rooms) in which it will be analyzed how the context of dying is concretely experienced and managed by health workers (doctors and professionals), by family members, and by patients in relation to the most relevant factors identified in the theoretical work. The research will be conducted mainly through the categories of sociological analysis but will also make use of philosophical and bioethical categories.

The results of the research will be carried out through conferences, seminars, training courses for physicians and healthcare professionals, aimed at promoting knowledge and relevance of social, ethical-moral, philosophical as well as medical aspects related to the care of the dying patient and the support to a good death. In particular, it is expected to achieve the following objectives in terms of scientific impact and contribution to internationalization:

- Construction of a dossier that will be disseminated in open access mode, which collects the results of the work with a view to:
 - 1) further interdisciplinary research developments related to end-of-life management;
 - 2) development of innovative socio-health protocols for the management of dying patients.
- Organization of a final conference to present the results of the research, in which experts from the academic and healthcare sectors, associations and foundations dealing with the end of life will be involved. - Publication of the research results in Italian and international scientific journals.
- Planning of a specific advanced training course on the topic of dying management to be addressed to healthcare professionals.
- Construction of a network of universities, research centers, Italian and international foundations dealing with the topic of end-of-life and palliative care, aimed at initiating collaborations for publications and joint research projects on the topic of the project.



RESEARCH PROJECT - CODE 5

"Measuring multidimensional inequalities in well-being."

Research structure: Department of Economics

Department resolution: 30.04.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage: CUP: F53C23000190005 – progetto UGOV: ASSEgni2324EXP

Duration of the grant: 24 months

Scientific area: 13 - Economics and Statistics

Competition sector: 13/STAT-02 Economic Statistics

Scientific disciplinary sector: STAT-02/A Economic Statistics

Scientific director: Prof.ssa Annamaria Bianchi

Entry requirement: Dottorato di ricerca Area CUN 13 - Scienze economiche e statistiche.

Knowledge of the language: English.

Additional qualifications evaluated by the Commission:

Knowledge of statistical software such as SAS, Stata or R and a statistical profile with experience in statistics and in the study of inequalities and composite indicators and in the use of complex databases such as EU-SILC are preferential qualifications.

Interview schedule:

Discussion of the publications and topics of the research project.

Description of the research project:

The project aims at making innovative contributions to the problem of measuring inequalities in well-being from a multidimensional perspective. In this regard, the availability of good quality estimates is fundamental for the design of effective policies aimed at combating inequalities. A particularly relevant aspect is the possibility of obtaining estimates at a local level (province or municipality). In relation to territorial well-being and sustainability at the local level, a topic of particular interest in recent years is linked to the phenomenon of depopulation, that affects many Italian and European municipalities.

In particular, the following blocks of topics are addressed:

- With reference to the measurement of inequalities in well-being,
 - a) inequality measures will be defined and calculated for each European country and the corresponding regions (NUTS2), separately. The dimensions considered will include income and wealth, work, housing conditions, health, education, work-life balance, environment, social relations, civic engagement, safety and subjective well-being;
 - b) considering that inequality measures are multidimensional, the construction of aggregate inequality profiles, taking into account different dimensions, will be explored in order to provide a picture of inequalities in well-being in European countries and their regions;
 - c) comparisons will be made between countries and within countries, their evolution over time and the analysis of factors associated with well-being.



- With reference to the analysis at local level (provinces and municipalities), the analysis will be restricted to the Italian case. A measure of well-being at the municipal level will be defined and calculated and the inequalities at the local level in Italy will be explored.
- A particular focus will be dedicated to the topic of depopulation at the local level in Italy. A multidimensional measure of depopulation will be proposed and calculated allowing to evaluate this complex phenomenon taking into account its different dimensions (e.g. demography, territorial isolation, education, labor market, economic well-being of families, etc.); the impact of other possible factors (e.g. presence of businesses and services, actions by municipal administrations) will be assessed to explain the differences observed.

The main phases of the project are:

- 1) Definition of a framework of the issues relating to the objectives of the research accompanied by specific analysis of the literature, both with reference to the methodologies and the substantial results;
- 2) Definition of the approach, both with reference to the statistical method and the source used and the phenomenon considered;
- 3) Methodological developments and analyses; dissemination of results and discussion in an international context.



RESEARCH PROJECT - CODE 6

"Contrasting PTSD in women victims of domestic violence"

Research structure: Department of Human and Social Sciences

Department resolution: 29.05.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEGN0EXP24FL - CUP F53C24000110005

Duration of the grant: 24 months

Scientific area: 11 - History, Philosophy, Pedagogy and Psychology

Competition sector: 11/PSIC-04 Clinical and Dynamic Psychology

Scientific Disciplinary Sector: PSIC-04/B Clinical Psychology

Scientific director: Prof.ssa Lisa Chiara Fellin

Entry requirement: Dottorato di ricerca in area CUN 11 - Scienze storiche, filosofiche, pedagogiche e psicologiche.

Knowledge of the language: English; knowledge of Italian for foreign applicants.

Additional qualifications evaluated by the Commission:

- Suitability of the scientific-professional curriculum for carrying out the research activity (Master degree, PhD, postgraduate diplomas and certificates of attendance at postgraduate and/or master's courses, ideally in fields related to those of the project);
- Documented clinical and/or research experience in areas related to those of the research project (e.g.: PTSD, domestic violence, EMDR, cognitive and memory impairment, neurophysiological correlates);
- Dissertation and/or doctoral thesis on areas related to those of the research project (e.g., PTSD, domestic violence, EMDR, neuropsychological functioning and impairment);
- Publications and other research products (if any), with particular reference to international publications;
- Methodological and statistical skills;

Interview schedule:

The interview will focus on the fundamental areas of clinical and community psychology and neuropsychology that are relevant to this call's research project (e.g., clinical knowledge on PTSD and psychophysical and neurophysiological impacts in women victims of domestic violence).

Prior clinical and/or research experience on the topics of the call will be discussed, including through discussion of the candidate's qualifications, research and professional experience.

Discussion of the candidate's educational and training background and major research topics, and how these may relate to the proposed research project.

Discussion of any publications produced.

Methodological and statistical skills and English language competence (written and spoken) will be ascertained.

The Commission reserves the right to verify the Italian language competence for foreign candidates; in this case, Italian language competence will be ascertained under penalty of ineligibility and will not count toward the final score, unless otherwise determined by the Commission.



Description of the research project:

Research project:

Domestic Violence & Abuse (DVA) is a serious global public health problem affecting women, further exacerbated by the COVID-19 pandemic and associated control measures (Keilholtz et al., 2023).

Numerous studies point to significant short- and long-term consequences on mental and physical health due to DVA. However, few contributions explore therapeutic interventions that can counteract its heavy sequelae. About 80 percent of victims develop post-traumatic stress disorder (PTSD) as a result of DVA. The consequences affect the short- and long-term outcomes of the mother, and newborn child, for their mental and physical health and life expectancy (Felitti, 2009).

Untreated PTSD results in a continuously overactive stress system, which can lead to complications and major medical conditions such as cardiological, autoimmune and oncological diseases (Abba et al., 2022).

EMDR is a psychological intervention developed for the treatment of traumatic memories (Oren & Solomon, 2012) that is internationally recognized as a first-choice therapy for the treatment of PTSD (WHO, 2013).

The main objective of the study is to determine whether EMDR therapy is an effective treatment for women with DVA-related PTSD. In addition, the neuropsychological aspects of this approach will be investigated through the pre-post treatment administration of cognitive tests, with particular reference to cognitive functions known to be implicated in PTSD, such as sustained attention, executive functions, and working memory (Jacob et al, 2019; Xiao Hu et al, 2024). A particularly interesting aspect concerns the possibility that these cognitive deficits may lead to cognitive impairment in some patients (Alves de Araujo Junior et al, 2023).

The study also contributes to the line of research aimed at identifying which brain structures and areas are involved in the reprocessing of traumatic memories and highlighting changes at the neurophysiological level following EMDR therapy.

People who have experienced major trauma also show signs of it at the brain level, presenting reduced volume in certain structures (hippocampus, amygdala, anterior cingulate cortex, and frontal orbit). These structural changes significantly correlate with those shown by neuropsychological tests. These findings evidenced through the use of tools such as EEG (Pagani et al, 2012) and functional neuroimaging (SPECT, fMRI) (Rousseau et al, 2019) shed light on the mind-body interconnection. Clinically and diagnostically, after treatment with EMDR, the patient usually no longer has the typical PTSD symptomatology, so the intrusiveness aspects of thoughts and memories, avoidance behaviors, and neurovegetative hyperarousal toward event-related stimuli are no longer found (El Khoury-Malhame et al, 2017).

Method:

This is a randomized controlled trial (RCT) with women recruited from shelters and Anti-Violence Centers in northern Italy. Women with PTSD will be randomized to EMDR therapy group conducted by an experienced psychotherapist or to treatment as usual (CAU) on a 1:1 basis by block randomization. Sample: Women over 18 years of age with PTSD living in a safe place. Exclusion criteria are age less than 18 years, intermediate or high suicide risk (based on the mini-international neuropsychiatric interview-plus; MINI-plus), or severe psychotic disorder, such as schizophrenia or ongoing psychosis (based on MINI-plus). Women currently undergoing other psychological or psychiatric treatment (medication), pregnant women will not be included. Sample size will be calculated by power analysis.

Tools:

The specific evaluation protocol will be defined based on the literature. The first two months of the project will aim to select the most suitable instruments. Then recruitment and randomization of participants into the 2 conditions will take place.

Statistical Analysis:

Descriptive statistics will be used to assess the basic demographic and clinical characteristics of both groups. All data will be analyzed according to intention-to-treat analysis: data from all randomized



participants will be analyzed using the groups (treatment vs. CAU) as defined at the time of randomization. In both conditions, symptoms will be measured at t0 (baseline), t1 (end of treatment), t2 (1-year follow-up) in order to monitor treatment outcomes over time. The treatment group and CAU group will be compared on all outcomes.

Scientific impact:

The project aims to fill some of the gaps highlighted by research in the area of domestic violence against women, in order to improve treatment and outcome and prevent intergenerational transmission of violence and harmful effects on women's mental and physical health.

By reducing a woman's mental capacity, domestic violence also has detrimental consequences on her parenting skills and a deleterious impact on the eventual mother-child relationship (Carter et al., 2022). Maternal mental health is associated with adaptive skills in children exposed to domestic violence (Fogarty et al., 2019): good mental health in the mother was a strong protective factor for children.

Spillovers in terms of training of practitioners to adequately support women victims of DVA with clinical and neuro-psychological competence and skills will be of paramount importance.

An additional goal of the project will be to strengthen links with voluntary and public sector organizations, stimulating local and international networking in order to improve cooperation and knowledge transfer between sectors and disciplines.

A well-articulated communication, dissemination and impact maximization strategy aimed at reaching different targets, including international ones, will be planned. It will be implemented in phases, through a variety of media and ad hoc tools. Finally, it is essential to disseminate the results and knowledge among policy makers and stakeholders in order to integrate them into operational practices in a timely manner.



RESEARCH PROJECT - CODE 7

"Statistics and mathematics anxiety: measurement, profiling, and association with academic performance and mindfulness-based intervention strategies"

Research structure: Department of Human and Social Sciences

Department resolution: 29.05.2024

Resolution of the Academic Senate: 10.06.2024

Resolution of the Board of Directors: 12.06.2024

Gross annual amount: € 25.000,00

Financial coverage:

ASSEGNI2324EXP - CUP F53C23000190005

Duration of the grant: 24 months

Scientific area: 11 - History, Philosophy, Pedagogy and Psychology

Competition sector: 11/PSIC-01 General Psychology, Neuropsychology and Cognitive Neuroscience, Psychometrics

Scientific Disciplinary Sector: PSIC-01/C Psychometrics

Scientific director: Prof. Andrea Greco

Entry requirement: Dottorato di ricerca in area CUN 11 - Scienze storiche, filosofiche, pedagogiche e psicologiche.

Knowledge of the language: English

Additional qualifications evaluated by the Commission:

- Carrying out a documented national and international research activities relevant to psychometrics - as long as they are duly certified as effective and lasting - in public and private subjects with contracts, scholarships or appointments, both in Italy and abroad;
- The scientific quality of publications and other research products with particular reference to those relating to psychometrics.

Interview schedule:

The interview will be aimed at ascertaining and verifying, also through the discussion of the qualifications presented and the research carried out by the candidate, the aptitude and experience of collaborating on the research project and, furthermore, to evaluate the candidate's knowledge in the field of the research project. The interview will focus on these topics and on the candidate's scientific production in order to evaluate the candidate's knowledge in this regard. Knowledge of the English language will be verified and to also will be verified the Italian language for foreign candidates.

Description of the research project:

Academic students in non-STEM disciplines (i.e., Science, Technology, Engineering, and Mathematics) often experience anxiety in learning mathematics and statistics (Jenny & Field, 2023). The first has been defined as "feelings of tension and anxiety that interfere with the resolution of mathematical problems in ordinary life and academic situations" (Richardson & Suinn, 1972, p. 551); the latter has been defined as "a negative state of emotional arousal experienced by people following encounters with statistics in any form and at any level" (Chew & Dillon, 2014, p. 199). From the two definitions it can be seen that appears to be a fair amount of overlap between the two constructs. In any case, the scientific literature does not agree on this aspect and it has not yet been determined whether these two forms of anxiety are two different constructs, as



initially hypothesized, or simply two shades of a more generic anxiety for the manipulation of numerical information (Jenny et al., 2023). In fact, to date, few studies have attempted to study the distinctiveness of the two constructs and, despite this, no agreement has yet been found on the matter (Baloğlu, 2002; Birenbaum & Eylath, 1994; Paechter et al., 2017; Zeidner, 1991). Therefore, the general objectives of this project are the following:

- Psychometric validation: Conduct the psychometric validation of an Italian version of the Stars scale (Cruise et al., 1985), which measures anxiety about statistics, and of the Mars scale (Baloğlu & Zelhart, 2007), which measures anxiety about mathematics;
- Evaluate whether statistics anxiety and mathematics anxiety have actually been transmitted to a single construct also in the Italian cultural context, through a replication study based on the studies conducted by Terry and Field (2023);
- Identify risk profiles for statistics and mathematics anxiety;
- Explore the protective effect of mindfulness exercises in reducing anxiety about statistics and mathematics, evaluating its impact on students' well-being and their academic performance.



RESEARCH PROJECT - CODE 8

"Organizational identification and trust as determinants of workers well-being"

Research structure: Department of Human and Social Sciences

Department resolution: 29.05.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEGN0EXP24BM - CUP F53C24000110005

Duration of the grant: 24 months

Scientific area: 11 - History, Philosophy, Pedagogy and Psychology

Competition sector: 11/PSIC-03 Social, Work and Organizational Psychology

Scientific disciplinary sector: PSIC-03/B Work and Organizational Psychology

Scientific director: Prof. Massimiliano Baratucci

Entry requirement: Dottorato di ricerca in Area CUN 11 - Scienze storiche, filosofiche, pedagogiche e psicologiche.

Knowledge of the language: English

Additional qualifications evaluated by the Commission:

- Evaluation of qualifications and scientific-professional curriculum (degree grade, research doctorate, specialization diplomas and certificates of attendance of specialization courses and/or post-graduate master's degrees, obtained in Italy or abroad, especially if relevant to the topics of the project (M-PSI/06).
- Evaluation of publications and other research products (including participation in conferences, seminars or study days as a speaker), especially if relevant to the project themes (M-PSI/06).
- Carrying out a documented research activity, especially if relevant to the topics of the project (M-PSI/06) - provided that the starting date and duration are duly certified - at public and private entities with contracts, scholarships or assignments, both in Italy and abroad.
- Evaluation of current research projects and research outcomes for coherence with the project and lines of prospective research.

Interview schedule:

- Knowledge of the construct and the related organizational variables.
- Research experiences relevant to the project.
- Knowledge and use of statistical analyzes and data analysis softwares.
- Knowledge and mastery of the English language.
- Experience in writing scientific articles in international journals.

Description of the research project:

The project intends to investigate the relationship between organizational identification and organizational trust, and how their interaction can contribute to generating organizational well-being. The project has the following objectives:

(1) verify the association between organizational identification and trust, in a multidimensional perspective (individual, relational, organizational level);



- (2) examine the structural, social, and psychological conditions that moderate the hypothesized relationship between identification and trust;
- (3) examine the impact of the relationship between identification and trust on a series of indicators of worker well-being. In order to achieve the objectives, the project involves the implementation of correlational and longitudinal studies in real organizational contexts.



RESEARCH PROJECT - CODE 9

"The cerebellum in ageing: counteracting cognitive decline with cerebellar non-invasive stimulation"

Research structure: Department of Human and Social Sciences

Department resolution: 29.05.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage:

ASSEGNOEXP24CZ - CUP F53C24000110005

Duration of the grant: 24 months

Scientific area: 11 - History, Philosophy, Pedagogy and Psychology

Competition sector: 11/PSIC-01 General Psychology, Neuropsychology and Cognitive Neuroscience, Psychometrics

Scientific disciplinary sector: PSIC-01/B Neuropsychology and Cognitive Neuroscience

Scientific director: Prof.ssa Zaira Cattaneo

Entry requirement: Dottorato di ricerca in Area CUN 11 - Scienze storiche, filosofiche, pedagogiche e psicologiche.

Knowledge of the language: English; For foreign applicants an excellent knowledge of Italian is also required.

Additional qualifications evaluated by the Commission:

Scientific maturity and propensity for research, proven by the presence of an international profile (e.g., 5-6 publications indexed in Pubmed and/or Scopus of international relevance, preferably as a leading name); research interest relevant to the topic of the project.

Interview schedule:

The interview will assess the candidate's knowledge about cognitive and clinical neuroscience and in particular the candidate's prior experience in clinical research and in the use of research techniques such as non-invasive brain stimulation. Motivational aspects will also be evaluated as well as knowledge of English language (for all candidates) and of Italian language (only for foreign applicants).

Description of the research project:

The project consists in the conduction of a series of experiments with cerebellar non-invasive stimulation in order to investigate the role of the posterior cerebellum in cognitive abilities that typically undergo a decline in ageing. The project aims to provide useful hints for new effective training/rehabilitation protocols to counteract the effects of ageing.



RESEARCH PROJECT – CODE 10

“Arabic as a Heritage Language in the province of Bergamo and its surrounding areas”

Research structure: Department of Foreign Language, Literatures and Cultures

Department resolution: 16.04.2024

Resolution of the Academic Senate: 29.01.2024

Resolution of the Board of Directors: 31.01.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEGN024ANDLLCS

Duration of the grant: 12 months

Scientific area: 10 – Antiquities, Philology, Literary Studies, Art History

Competition sector: 10/STAA-01 Ancient and Modern Cultures and Languages of Africa and Western and Central Asia

Scientific disciplinary sector: STAA-01/L Arabic Language and Literature

Scientific director: Prof.ssa Lucia Avallone

Entry requirement: Dottorato di ricerca in area CUN 10 Scienze dell'antichità, filologico-letterarie e storico-artistiche.

Knowledge of the language:

- Arabic;
- French or English;
- Italian.

Additional qualifications evaluated by the Commission:

Research experience in two specific areas will be recognised: the transmission of Arabic as a heritage language and/or Arabic dialectology, in particular knowledge of the Moroccan dialect, which is the most widespread among the immigrant communities of Arab origin in the Bergamo area.

Interview schedule:

The interview will test the candidate's knowledge of the above-mentioned languages and theoretical skills required for the project. Additionally, the candidate's research methods will be discussed.

Description of the research project:

The research will begin with an initial phase of mapping Arab communities in the area and identifying family units consisting of members from different generations. The aim is to locate the point of observation of the processes of transmission, development, maintenance, loss or erosion of the heritage language within family and intergenerational relations. Then identity attitudes towards the language and culture of the country of immigration will be explored, as well as the linguistic attitudes of the first, second (or third) generation towards the use of the family heritage language, which may include one or more Arabic dialects. The study aims to observe the language policies implemented within families and the community network, including Arabic schools run by the Arab-Islamic community. The objective is to understand their orientations and classify them. The research will also examine parents' choices regarding their children's language education with regard to enrolment in university Arabic language, culture, and literature courses and other courses of standard Arabic and/or Arabic dialects. For this second phase, the researcher will collect data through a qualitative investigation, using questionnaires and interviews. Additionally, a corpus will be composed to represent the linguistic interactions between parents (or other first-generation immigrant family



members) and children (born in Italy or immigrated after partial schooling in the country of origin). The corpus, constructed by recording conversations, will provide the opportunity to observe and analyse the interaction modes and discourse strategies used by speakers and linked to various factors that will be examined, in addition to predictable phenomena of contact with Italian, the dominant language in the immigration context.

Objective:

The research project aims to investigate the strategies for maintaining Arabic as a Heritage Language in the Arab communities in Lombardy, a region marked by a long tradition of immigration and great cultural diversity, and particularly in the province of Bergamo and its surrounding areas. The study will analyse how families and institutions contribute to the transmission of Arabic to new generations, despite the pressures that may lead to language shift (Fishman 1991). The research aims to trace everyday practices, as well as formal and informal educational spaces, of heritage language maintenance through an ethnographic and sociolinguistic approach. It also intends to map the linguistic resources available in the community and analyze how these resources are used to construct and negotiate belonging to the Arabic community. Particular attention will be given to the speakers' perceptions of Arabic as a link to their culture of origin and as a tool for social cohesion (Pavlenko & Blackledge 2004), as well as to local language policies (Spolsky 2004). The assessment will focus on how these policies may support or hinder multilingualism and cultural diversity (Rumbaut & Massey 2013).

Theoretical framework:

The project is situated in a field of research that intersects studies on the acquisition of Arabic language as a second language and its maintenance as a heritage language. The research is based on a literature that originated as a sector of acquisitional linguistics and gained relevance with the publication of theoretical and experimental articles and essays. In particular, there are scholarly contributions that take into consideration societies characterised by permanent migratory contexts, in the United States and Canada (Bale 2010; Albirini 2018; Visonà & Plonsky 2020) as well as in Europe (Haque 2011; Moustauoui Srhir 2021; Hollebeke 2023) and, specifically, also in Italy (Cognigni 2019; Alessandrini 2022).

Key words:

- Arabic as a heritage language;
- Maintenance;
- Multilingualism;
- Language practices;
- Language policies.

Time:

- Months 1-3: Mapping of the Arab community in the area; identification of participating households, contacting them, questionnaire administration, and data analysis.
- Months 4-5: Interviews with participants, questionnaire administration, and analysis of the results.
- Months 6-8: Collection of oral linguistic material to build the corpus.
- Months 9-11: Analysis of the corpus aimed at identifying discursive strategies.
- Month 12: Dissemination of the research findings through a study day and a scientific article.

Expected results:

The research will examine the language policies implemented in Arab-origin families in contexts of permanent migration and the role attributed to the heritage language both in family and community life and in the cultural and professional education of young people. The study aims to identify language choices that serve as integration strategies in the Italian social and educational framework, as well as those that aim to transmit knowledge and values of the culture of origin. It will be possible



to understand the cultural and language training needs of Arab families to which the Arab-Islamic communities present in and around Bergamo, as well as some educational institutions (such as the Liceo Linguistico 'G. Falcone') and the University of Bergamo (Department of Foreign Languages, Literatures and Cultures) respond. The topic can be further studied from the perspective of the multilingual and multicultural society in which the community of Arab origin is only one part in relation to the others and the recognition of one or more languages as one's own affects the recognition of individual identity (also as multiple identity) and the exercise of cultural freedom as an important goal of human development (Giovanola 2010).

Iniziale bibliografia di riferimento

- Albirini, A. (2014). The Role of the Colloquial Varieties in the Acquisition of the Standard Variety: The Case of Arabic Heritage Speakers. *Foreign language annals* 47.3, 447-463.
- Albirini, A. (2014). Toward Understanding the Variability in the Language Proficiencies of Arabic Heritage Speakers. *The international journal of bilingualism: cross-disciplinary, cross-linguistic studies of language behavior* 18.6, 730-765.
- Albirini, A. (2018). The Role of Age of Exposure to English in the Development of Arabic as a Heritage Language in the United States. *Language acquisition* 25.2, 178-196.
- Albirini, A., & Chakrani, B. (2017). Switching codes and registers: An analysis of heritage Arabic speakers' sociolinguistic competence. *International Journal of Bilingualism* 21(3), 317-339.
- Alessandrini, S. (2022). Politiche linguistiche familiari: interazione e trasmissione intergenerazionale nelle/delle lingue e culture d'origine in famiglie provenienti dall'Africa francofona. *Educazione interculturale* 20.2, 62-73.
- Alessandrini, S. (2023). Contaminations, hybridations, variations: "le parler jeune" des "nouveaux italiens". *Quaderns d'Italia* 28, 15-32.
- Alessandrini, S. (2023). Deuxièmes générations d'adolescents et transmission intergénérationnelle des langues d'origine: Étude de cas sur la politique linguistique des familles migrantes d'origine africaine en contexte italien. *Glottopol. Revue de sociolinguistique en ligne* 38, 68-77.
- Bale, J. (2010). Arabic as a Heritage Language in the United States. *International multilingual research journal* 4.2, 125-151.
- Bayo Khalli, M. (2023). La langue des parents d'élèves migrants et immigrés: entre exclusion et inclusion pour une coéducation plurilingue réussie. *Glottopol. Revue de sociolinguistique en ligne* 39, 67-83.
- Bose, P., Gao, X., Starfield, S., Sun, S., & Ramdani, J. M. (2023). Conceptualisation of family and language practice in family language policy research on migrants: a systematic review. *Language policy* 22(3), 343-365.
- Cognigni, E., & Crespi, I. (2022). Famiglie nella migrazione. Dinamiche intergenerazionali e inclusione nei contesti socioeducativi. *Educazione interculturale* 20.2, VIII-XIV.
- ElHawari, R. (2021). Teaching Arabic as a heritage language. Routledge.
- Fishman, J. A. (1991). Reversing Language Shift: Theoretical and Empirical Foundations of Assistance to Threatened Languages. *Multilingual Matters*.
- Ghazi A. (2012). Heritage and Non-Heritage Language Learners in Arabic Classrooms: Inter and Intra-Group Beliefs, Attitudes and Perceptions. *Journal of the National Council of Less Commonly Taught Languages* 12, 73-106.
- Giovanola, B. (2010). Immigrazione, identità e cittadinanza: riflessioni etico-politiche. *PRISMA Economia-Società-Lavoro* 2, 67-79.
- Guardado, M. (2018). Discourse, Ideology and Heritage Language Socialization: Micro and Macro Perspectives. De Gruyter.
- Haque, S. (2011). Migrant family language practices and language policies in Finland. *Apples-Journal of Applied Language Studies* 5.1, 49-64
- Hollebeke, I., Dekeyser, G. N. M., Caira, T., Agirdag, O., & Struys, E. (2023). Cherishing the heritage language: Predictors of parental heritage language maintenance efforts. *International Journal of Bilingualism* 27.6, 925-941.



- Husseinali, G. (2012). Arabic heritage language learners: Motivation, expectations, competence, and engagement in learning Arabic. *Journal of the National Council of Less Commonly Taught Languages* 11, 97-110.
- Lucchini, S. (2007). L'enseignement des langues d'origine, à quelles conditions? *Le français aujourd'hui* 3, 9-19.
- Matthey, M. (2017). La famille comme lieu de transmission des langues minoritaires ou minorisées. Éléments de réflexion pour un cadrage politico-théorique. *Insaniyat/ إنسانيات* . *Revue algérienne d'anthropologie et de sciences sociales* 77-78, 27-40.
- Moustaoi Srrhir, A. (2021). The discourses of heritage languages: development and maintenance within transnational moroccan families in Spain: from language ideologies to resistance. *Elia: estudios de lingüística inglesa aplicada* 21, 15-51.
- Pavlenko, A., & Blackledge, A. (2004). *Negotiation of Identities in Multilingual Contexts. Multilingual Matters.*
- Rosowsky, A. (2023). To what extent are sacred language practices ultralingual? The experience of British Muslim children learning Qur'anic Arabic. *International Journal of Bilingualism*, Special issue, 1-14.
- Rumbaut, R. G., & Massey, D. S. (a cura di). (2013). *Immigration & Language Diversity in the United States.* Russell Sage Foundation.
- Spolsky, B. (2004). *Language Policy.* Cambridge University Press
- Tilmatine, M. (1997). Enseignement des langues d'origine et immigration nord-africaine en Europe: Langue maternelle ou langue d'Etat? *INALCO.*
- Visonà, M. W., & Plonsky, L. (2020). Arabic as a heritage language: A scoping review. *International Journal of Bilingualism* 24.4, 599-615.
- Yan, R. L. (2003). Parental perceptions on maintaining heritage languages of CLD students. *Bilingual Review* 27.2, 99-113.



RESEARCH PROJECT – CODE 11

“The ‘successful’ variant from dramaturgical text to staging: variants and interpretations of Russian classics”

Research structure: Department of Foreign Language, Literatures and Cultures

Department resolution: 04.06.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage:

ASSEGNOEXP24DO – CUP F53C24000110005

Duration of the grant: 24 months

Scientific area: 10 – Antiquities, Philology, Literary Studies, Art History

Competition sector: 10/SLAV-01 Slavic Studies

Scientific disciplinary sector: SLAV-01/A Slavic Studies

Scientific director: Prof.ssa Ornella Discacciati

Entry requirement: Dottorato di ricerca in area CUN 10 - Scienze dell'antichità, filologico-letterarie e storico-artistiche.

Knowledge of the language:

- Russian (mother tongue level or C2).
- Italian.
- English.

Additional qualifications evaluated by the Commission:

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Interview schedule:

Excellent knowledge of Russian Literature and History of Russian Theatre, research attitude demonstrated by publications.

Description of the research project:

The two-year project aims to analyse and differentiate with a literary-philological approach the impact of the different author variants of the works by Lermontov, Gogol', Čechov and Majakovskij on the final text later adopted by the directors who staged them during the 19th and 20th centuries.

The authors were chosen in view of the current international political situation that does not allow for archival research on contemporary playwrights and leads to the challenge of rereading the classics in their reception in different historical and cultural contexts and adopting an interdisciplinary and polycentric approach and innovative methodologies.

Beginning with a careful analysis of the compositional genesis of a single work per author, chosen on the basis of criteria of notoriety, even among non-Russian audiences, and of particular problematity, the project will continue by analysing the autograph variants, with particular regard to censorship in the 19th century and self-censorship in the 20th century. It will then focus on the choices of the director, identified among those who contributed a particularly original interpretation of the work to its canonisation. With equal care, the possible contribution made to the reception by the actors/interpreters recorded in memoirs, letters, conversations reported in the press, etc. will also be



analysed. Lastly, the most significant stagings of the same play realised in subsequent periods will be compared in order to highlight the importance of the variations in the interpretation of the text due to changes of both a cultural and political nature in a country where an ideological reading is often inherent to the reception of the artistic text.

From the second stage of research, the fundamental question of defining the “successful” variant emerges: would it then be the undoubtedly not simple task of restoring the ‘author’s will’, or could this definition of variant allow for an interpretation that gives greater prominence to the more unresolved aspects of the work? Were these aspects accepted in the reception of the work, then as in later stagings?

Objective:

The project, lasting two years, aims to analyze and differentiate with a literary-philological approach the impact of the different author variants of the works of the different author variants of the works of Lermontov, Gogol', Čechov and Majakovskij on the final text later adopted by the directors who staged them during the 19th and 20th centuries.

Theoretical framework:

The project intends to fill a gap in national Slavic studies: to date, Russian theatre is dealt with in works of a historical-manualistic nature, such as ‘Il teatro russo’ (The Russian Theatre) by Ettore Lo Gatto (Milan, Bompiani, 1955) or, with a considerable leap in time, in ‘Storia del teatro moderno e contemporaneo’ edited by R. Alonge and G. Davico Bonino (Turin, Einaudi, 2001-2003) or relegated to individual chapters in histories of literature or in monographs dedicated to directors (“Il trucco e l'anima. I maestri della regia nel teatro russo del Novecento’ by A. M. Ripellino (Turin, Einaudi, 1965)). At the same time, one cannot ignore the numerous studies on individual plays, which, however, privilege either the literary or the dramaturgical aspect.

All this scholarly production does not contemplate a research work that unites the literary and philological approaches in a wide-ranging analysis in the interpretative process. Only in this way can the concept of the ‘successful variant’, which could contradict the directorial choices, be elaborated.

Key words:

- Russian Literature.
- History of Russian Theatre.
- Philology.
- Russian Culture.

Time:

- Four works chosen, one for each author among Lermontov, Gogol', Chekhov and Majakovsky (1 month)
- Elaboration of a definition of ‘successful variant’ and elaboration of a method for its reconstruction (4 months)
- Identification and analysis of the authorial variants of each dramaturgical works chosen (12 months)
- Analysis of directorial-interpretive choices (6 months)
- Analysis of the impact of performers on reception (1 month)

Expected results:

- A conference at the University of Bergamo on “authorial variants in dramaturgical texts” .
- An article submitted to the Fascia A journal “Linguistics and Philology”.

Iniziale bibliografia di riferimento

- Alonge R. e Davico Bonino G. (a cura di) Storia del teatro moderno e contemporaneo, Torino, Einaudi, 2001-2003.



- A History of Russian Theatre, ed. by R. Leach e V. Borovsky, Cambridge University Press, Cambridge 1999.
- Čechov A.P., "Tri sestry", in Polnoe sobranie sočinenij v 30 t., AN SSSR, Nauka, Moskva 1978.
- Ejchenbaum B., Pjat' redakcii "Maskarada", FEB <http://feb-web.ru/feb/lermont/critics/mas/mas1093-.htm>
- Gogol' N., Polnoe sobranie sočinenij v 14 t., Iz-dvo AN SSSR, 1937-1952
- "Gore ot uma" A. S. Griboedov, FEB, <http://feb-web.ru/feb/griboed/default.asp>
- Italia P. e Raboni G.,
- Lo Gatto E., Il teatro russo, Bompiani, Milano 1955.
- Majakovskij V.V., in Polnoe sobranie sočinenij v 30 t., (1955-1961), t.2, GICHL, Moskva 1956.
- Ripellino A. M., Il trucco e l'anima. I maestri della regia nel teatro russo del Novecento, Einaudi, Torino, 1965.
- Ripellino A. M., Majakovskij e il teatro russo d'avanguardia, Einaudi, Torino 1968.
- Malcovati F. (a cura di), L'ottobre teatrale, 1918-39, Cue Press, Bologna 2020.



RESEARCH PROJECT – CODE 12

"Uprising Images – Politics of the Visual in US Activist Cultures (1981-2021)"

Research structure: Department of Foreign Language, Literatures and Cultures

Department resolution: 04.06.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage:

ASSEGNOEXP24PG – CUP F53C24000110005

Duration of the grant: 24 months

Scientific area: 10 – Antiquities, Philology, Literary Studies, Art History

Competition sector: 10/PEMM-01 Performing Arts, Music, Film and Media

Scientific disciplinary sector: PEMM-01/B Cinema, Photography, Radio, Television and Digital Media

Scientific director: Prof. Giuseppe Previtali

Entry requirement: Dottorato di ricerca in area CUN 10 - Scienze dell'antichità, filologico-letterarie e storico-artistiche o area CUN 11 - Scienze storiche, filosofiche, pedagogiche e psicologiche.

Knowledge of the language: English

Additional qualifications evaluated by the Commission:

The evaluation of the Commission will be based on the following:

- Doctoral thesis (topics addressed, SSD and grade)
- Study and research experiences in the field of visual culture studies
- Attainment of specialisation diplomas and/or attendance of specialisation and/or postgraduate courses, in Italy and/or abroad.
- Scientific publications and other research products.
- Participation in research activities, duly documented and substantiated, at public and/or private entities with contracts, scholarships or assignments carried out in Italy or abroad.

Interview schedule:

The interview will be conducted in Italian and will consist of a discussion of the curriculum vitae, titles and publications submitted by the candidate. In particular, the interview will assess: the way in which the research programme will be approached; the knowledge and skills in the field of visual studies and visual arts. The degree of linguistic proficiency in English will also be assessed.

Description of the research project:

In the contemporary scenario, the act of revolt seems to be one of the most interesting phenomena with regard to the forms of collective political action. It is no coincidence that the 21st century opened with the 'no-global' clashes and seems to have been characterized since then by an inexhaustible contestatory energy, which the presence of digital media (capable of guaranteeing unprecedented possibilities of circulation and re-appropriation to images) has contributed to make visible, when not explicitly amplified. If today it is possible to speak of a transnational front of revolts, which hints at their intimately heterogeneous nature in terms of claims and political orientations, the United States scenario seems to offer a particularly interesting set of case studies. Indeed, in the space from the first emergence of AIDS-related queer activism to the assault on Capitol Hill, American imaginary has



been strongly shaken by a series of uprisings that, despite their specificity, have at the same time contributed to define and make visible a set of elementary functions that images can play in revolt. By selecting some relevant cases (e.g. the ACT UP movement in its various media manifestations, Black Lives Matter and its complex genealogy going back to the liberation movement, the seminal event of Zuccotti Park and the transnational scope of Occupy, the new forms of ecological activism, etc.), the project proposes to analyze and catalogue these functions, thus questioning the act of uprising from an original point of view. If in fact the individual protest movements have been the subject of an early and in many cases absolutely accurate attempt to historicize them, what is needed from visual studies is above all to reason at a different level of abstraction, identifying common processes and social uses of images that are recurrent within a composite galaxy (, thus defining an archive of elementary visual gestures.

Objective:

The aim of the project is to map the ways in which, between 1981 and 2021, different forms of mass protests were expressed in the US cultural context. Within this timespan, the project intends to relate heterogeneous manifestations and forms of revolt taking into account the ways in which still and moving images were used. More specifically, the aim is to make an innovative contribution to the emerging field of transdisciplinary studies on collective uprisings by interrogating, from the perspective of visual culture studies, the social uses performed (and at the same time made possible) by the visual in this context.

Theoretical framework:

This research moves from the field of visual studies; it aims to map and analyze a heterogeneous visual heritage that is still relatively overlooked by this specific methodology. In particular, the case studies will be questioned as the emanation of a specific historical-cultural context, of which they constitute both a form of archiving and a bottom-up counter-narrative. In this sense, it will be necessary to elaborate a complex theoretical framework, able to recognize the profound interconnections between aesthetics and politics at work in these contexts, identifying lines of continuity and processes of adaptation implemented by different movements. The distinctly trans-disciplinary nature of the research will require taking into account the contributions of different fields of knowledge to historicize and adequately analyze the case studies; let's think of the importance of postcolonial studies and black feminism for a profound understanding of the Black Lives Matter movement (also in its connections with the Black Panther Party experience) or the capacity of queer theory to generate knowledge situated in the context of the AIDS epidemic (as the case of Douglas Crimp clearly demonstrates).

Key words:

- Visual studies.
- Aesthetics.
- Uprisings.
- Visual arts.

Time:

Phase 1 (approx. 5 months): bibliographical survey and definition of a trans-disciplinary theoretical framework that, at the intersection between visual studies and aesthetics, can profitably make use of the contributions of other disciplinary fields. Identification of a representative sample of protest events whose visual archives will subsequently be interrogated. Phase 2 (12 months): Research (possibly involving visiting periods abroad) on the images of the protest events identified as more representative. In this phase, the research will specifically focus on the identification of recurring practices, common aesthetic choices and on the search of possible cross-cultural connections between forms of rioting. First dissemination of the results. Phase 3 (7 months): Dissemination activities (e.g. scientific seminars, public engagement events). Finalization of a monograph and/or edited collection.



Expected results:

The project aims to fill an important gap in the context of insurgency studies. In particular:

- The main impact of the project will be to develop a unified theoretical framework, capable of connecting in new ways - dealing above all with the problem of the social uses and cultural functions of the visual - political manifestations that are still usually considered in isolation.
- The project also intends to give a strong impulse to the international projection of the University's research, bringing the researcher into dialogue with existing research networks and fostering the construction of new networks for the future continuation of research in the field.

Iniziale bibliografia di riferimento

- Adams J.M. (2014), *Occupy Time: Technoculture, Immediacy, and Resistance after Occupy Wall Street*, Palgrave Macmillan, New York.
- Bertho A. (2020), *Time Over? Le temps des soulèvements*, Éditions du croquant, Paris.
- Bevins V. (2023), *If We Burn. The Mass Protest Decade and the Missing Revolution*, Wildfire, London.
- Bolt N. (2012), *The Violent Image. Insurgent Propaganda and the New Revolutionaries*, Hurst & Co., London.
- Brown A.M. (2022), *Pleasure Activism vol. 1*, NERO, Roma.
- Butler J. (2017), *Notes Towards a Performative Theory of Assembly*, Harvard University Press, Harvard.
- Clover J. (2016), *Riot. Strike. Riot. The New Era of Uprisings*, Verso, London.
- Cohen E. (1991), "Who Are We? Gay Identity as Political (E)Motion", in Fuss D. (ed.), *Inside/Out. Lesbian Theories, Gay Theories*, Routledge, London-New York, 71-92.
- Crimp D. (1989), "Mourning and Militancy", *October*, 53, 3-18.
- Crimp D. e Rolston D. (1990), *AIDS Demo Graphics*, Bay Press, Seattle 1990.
- Di Cesare D. (2020), *Il tempo della rivolta*, Bollati Boringhieri, Torino.
- Didi-Huberman G. (2016), *Soulèvements*, Gallimard, Paris.
- Didi-Huberman G. (2019), *Désirer, désobéir. Ce qui nous soulève 1*, Les Éditions de Minuit, Paris.
- Edelman L. (1994), *Homographesis. Essays in Gay Literary and Cultural Theory*, Routledge, London-New York.
- Fahlenbrach K. et al (2016 eds.), *Protest Cultures: A Companion*, Berghan Books, New York- Oxford.
- Götke F. (2021), *Burning Images. A History of Effigy Protest*, Valiz, Amsterdam.
- Halberstam J. (2022), *L'arte queer del fallimento*, Minimum Fax, Roma.
- Haraway D. (2020), *Chtuhlucene. Sopravvivere su un pianeta infetto*, NERO, Roma.
- Hartle S. And White D. (2022 eds.), *Visual Activism in the 21st Century. Art, Protest, and Resistance in an Uncertain World*, Bloomsbury, London.
- Hillstrom L.C. (2018), *Black Lives Matter. From a Moment to a Movement*, Bloomsbury, London.
- McGarry et al. (2019 eds.), *The Aesthetics of Global Protest. Visual Culture and Communication*, Amsterdam University Press, Amsterdam.
- Milan S. (2017), "Data Activism and the New Frontier of Media Activism", in Pickard et al. (eds.), *Media Activism in the Digital Age*, Routledge, London, 151-62.
- Muñoz J.E. (2022), *Cruising Utopia. L'orizzonte della futurità queer*, NERO, Roma.
- Mirzoeff N. (2017), *The Appearance of Black Lives Matter*, NAME, Miami.
- Mitchell W.J.T. (2012), "Image, Space, Revolution: The Arts of Occupation", in *Critical Inquiry*, 39(1), 8-32.3
- Nancy J.L. (2001), *Essere singolare plurale*, Einaudi, Torino.
- Olesen T. (2018), "Memetic Protest and the Dramatic Diffusion of Alan Kurdi", *Media, Culture & Society*, 40(5), 656-672.



- Radsch C.C. (2016), *Cyberactivism and Citizen Journalism in Egypt*, Palgrave Macmillan, Cham.
- Rancière J. (2016), *La partizione del sensibile. Estetica e politica*, DeriveApprodi, Roma.
- Veneti A. (2017), "Aesthetics of Protest: An Examination of the photojournalistic approach to protest images", *Visual Communication*, 16 (3), 279-88.



RESEARCH PROJECT – CODE 13

"Bestiario isidoriano in volgare: critical and commented edition."

Research structure: Department of Foreign Language, Literatures and Cultures

Department resolution: 04.06.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEGN0EXP24CD – CUP F53C24000110005

Duration of the grant: 24 months

Scientific area: 10 – Antiquities, Philology, Literary Studies, Art History

Competition sector: 10/FLMR-01 Medieval Latin, Romance Philology and Literature

Scientific disciplinary sector: FLMR-01/B Romance Philology and Linguistics

Scientific director: Prof. Checchi Davide

Entry requirement: Dottorato di ricerca in area CUN 10 - Scienze dell'antichità, filologico-letterarie e storico-artistiche.

Knowledge of the language:

- Italian.
- English.

Additional qualifications evaluated by the Commission:

Up to a maximum of 3 scientific products.

Interview schedule:

The interview will be held in Italian and will focus on the following aspects:

- Discussion of the academic titles submitted and presentation by the candidate of his/her doctoral thesis;
- The candidate will explain how he plans to conduct the research project;
- Any possible questions from the commission on the implementation of the research project.

Description of the research project:

The *Bestiario isidoriano in volgare* is a work surviving in two manuscripts (Florence, Biblioteca Nazionale Centrale, Magl. XXI.135 and Florence, Museo della Scienza, ms. 8, both from the second half of the 14th century) that brings together various treatises and compilations in a sylloge of 'natural history'. In a 2005 essay, Antonio Lupis highlighted how the text is interesting for its content and from a linguistic and lexicographical point of view. He also promised a critical edition, which has never been done. The aim of the project is the first edition of the text, based on an in-depth study of the witnesses, the sources used by the compiler, the linguistic aspects and the place of the text within the didactic-scientific literature of the period.

Objective:

Critical and annotated edition, with linguistic and source analysis, of the unpublished *Bestiario isidoriano in volgare*, datable to the first half of the 14th century.



Theoretical framework:

The main area of research will concern Romance philology and the study and editing praxis of medieval texts. The particular nature of the text will also require a multidisciplinary approach within medieval disciplines such as paleography, codicology, medieval art history and the history of literature.

Key words:

- Romance philology.
- Medieval bestiaries.
- 14th century Italian vernacular.

Time:

- First year, first semester. Codicological and paleographic analysis and description of the two witnesses.
- First year, second semester. Investigation of the sources used by the author and study of his milieu.
- Second year, first semester. Establishment of the critical text and elaboration of a glossary of linguistically relevant terms.
- Second year, second semester. Preparation of the exegetical and linguistic commentary and dissemination of the research results.

Expected results:

At the end of the two-year period, the researcher is expected to produce the first critical edition of the *Bestiario isidoriano in volgare*, accompanied by a glossary and by an annotation of linguistic and exegetical aspects. The results of the research will be disseminated through two channels. The first concerns dissemination in the scientific environment through three scientific articles or one article plus a monograph. The second channel concerns the dissemination of the results within the University of Bergamo with the organisation of an interdepartmental seminar within the SeSTAM group's initiatives, on a topic related to its own research, and some dissemination talks within the UniBG OnAir University radio station.

Iniziale bibliografia di riferimento

- CHECCHI 2020: *Libro della natura degli animali. Bestiario toscano del secolo XIII*, Edizione critica a cura di Davide Checchi, Firenze, Edizioni del Galluzzo, 2020.
- CHECCHI 2017: Davide Checchi, *Le fonti del «Libro della natura degli animali»*, in «Studi medievali», 58 (2017), pp. 525-578
- DOROFEEVA 2023: Anna Dorofeeva, *Reading Nature in the Early Middle Ages: Writing, Language, and Creation in the Latin Physiologus, ca. 700-1000*, Amsterdam, ARC Humanities Press, 2023
- LUPIS 2005: Antonio Lupis, *Prolegomeni all'edizione di un'enciclopedia toscana del tardo secolo XIV sulle nature di animali, uomini, luoghi e pietre preziose*, in «Vox Romanica», 64 (2005), pp. 21-63
- MORINI 1996: *Bestiari Medievali*, a cura di Luigina Morini, Torino, Einaudi, 1996.
- MURATOVA 2019: Xénia Muratova, *Patrons and artists: tradition and invention in medieval illuminated bestiaries*, in *Book of beasts: the bestiary in the medieval world*, a cura di Elizabeth Morrison, Los Angeles (CA), Getty Trust Publications, 2019, pp. 39-49.
- SQUILLACIOTI 2007: Paolo Squillacioti, *Il bestiario del Tesoro toscano nel ms. Laurenziano Plut. XLII 22*, in «BOVI», 12 (2007).
- ZAMBON 2019: *Bestiari tardoantichi e medievali*, a cura di Francesco Zambon, Milano-Firenze, Bompiani, 2019.



RESEARCH PROJECT – CODE 14

"Public value creation through strategic planning in universities: a field study"

Research structure: Department of Management

Department resolution: 29.05.2024

Resolution of the Academic Senate: 10.06.2024

Resolution of the Board of Directors: 12.06.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEgni2324EXP – CUP: F53C23000190005

Duration of the grant: 24 months

Scientific area: 13 – Economics and Statistics

Competition sector: 13/ECON-08 Organization Studies

Scientific disciplinary sector: ECON-08/A Organization Studies

Scientific director: Prof. Luca Carollo

Entry requirement: Dottorato di ricerca in Area CUN 13 – Scienze economiche e statistiche o Area CUN 14 – Scienze politiche e sociali.

Knowledge of the language: Proficient use of Italian and English is required

Additional qualifications evaluated by the Commission:

Skills in qualitative research, evidenced by publications in organizational and social sciences in national and international journals, with an empirical approach involving data collection and analysis/interpretations.

The Selection Committee will consider also candidates with a background in Sociology, Economic sociology and Sociology of culture and communication.

Interview schedule:

The interview will focus on the knowledge of qualitative research techniques and methodologies, and on candidates' previous knowledge or experiences pertaining to organizational and/or business contexts. Although it is not an essential prerequisite, familiarity with Action Research methodologies will be considered a plus by the Selection Committee.

Description of the research project:

The concept of public value refers to the value that an organization is able to generate for society and has become one of the cornerstones of organization studies and public administration literature in recent years. However, the concept of public value remains somewhat elusive and challenging to define in precise terms. Each public administration must find a way to identify, define, and operationalize its contribution to society to ensure its proper functioning in alignment with principles of efficiency and effectiveness. Recently, in Italy the concept of public value gained particular relevance in the planning activities of public administrations with the implementation of the Integrated Plan of Activities and Organization (PIAO), which came into effect on June 30, 2022. This measure establishes that the activities of every public administration have to be oriented towards generating "objectives of public value (...), understood as the increase in economic, social, educational, and environmental well-being in favor of citizens and the productive forces" (art. 3, paragraph 1 of the Decree of the Department of the Public Function No. 132/2022). Universities represent a particular and, in some ways, exceptional case of public administration, characterized by a multiplicity of objectives and by a highly professionalized and diversified workforce. Through a literature review and



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one or more case study(ies), the research project aims to investigate the way in which Universities, through their internal processes of strategic planning and strategy-implementation, contribute to generating public value. The project is also designed as an 'Action-Research' initiative, simultaneously serving the purpose of intervention and organizational development in the studied context(s), while also aiming to contribute innovatively to scientific knowledge.



RESEARCH PROJECT - CODE 15

"Investigating Salience: econometric models and methods for macroeconomic forecasting"

Research structure: Department of Economics

Department resolution: 27.05.2024

Resolution of the Academic Senate: 10.06.2024

Resolution of the Board of Directors: 12.06.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEgni2324EXP - CUP F53C23000190005

Duration of the grant: 24 months

Scientific area: 13 - Economics and Statistics

Competition sector: 13/ECON-05 Econometrics

Scientific disciplinary sector: ECON-05/A Econometrics

Scientific director: Prof. Emilio Zanetti Chini

Entry requirement: Dottorato di ricerca in Area CUN 13 - Scienze economiche e statistiche.

Knowledge of the language: English.

Additional qualifications evaluated by the Commission:

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Interview schedule:

Illustration of the Research project, verify of knowledge of English proficiency.

Description of the research project:

Motivation

The increase in macroeconomic uncertainty in the current geopolitical and economic context tests the forecasting capabilities of any economic agent called upon to make decisions: households and investors, who must make costly consumption or investment choices based on a certain amount of information; and professional analysts, who must provide accurate visions of economic uncertainties. If all experts have perfect knowledge of economic fundamentals and their dynamics, their forecasts should coincide with the data. Otherwise, the differences between forecasts and data should be limited to random noise. However, forecasts of major macroeconomic variables are still characterized by recurrent and systematic biases (and potentially predictable), even in world-renowned institutions like the Survey of Professional Forecasters owned by the Federal Reserve Bank (SPF-FED). Croushore and Stark (2019) and others have found these biases in both temporal and cross-sectional dimensions. These divergent biases over time and among individuals (the "two biases") challenge traditional econometric axioms. These are:

Axiom 1: data-based estimation - the probability distribution of an economic variable is predicted using data only;

Axiom 2: linear iterative scheme - following the Box-Jenkins approach, forecasters collect data, maximize their utility (or minimize their disutility) using likelihood-based or similar methods, then diagnose the resulting estimates so that the outcome (or quote) (publicly available) incorporates a certain estimate based on external sample information (judgment).

The two biases are based on the assumption of rational inattention (RIH). The economic agent must choose between gathering and processing new information and saving effort, according to RIH. Consequently, the static and dynamic costs of information must be minimized. Consult Mackowiack



et al. (2021) for an updated overview of the literature on this topic starting from Sims (2003). We are interested in the RIH strategy. In a model assuming strategic interactions among agents to explain their choices, information can be an endogenous variable if it represents a constraint. However, data on the attention of professional forecasters are scarce, making it difficult to study the two biases and their relationship with other economic variables. This is what drives my research.

Research Questions

This project uses available (limited) datasets and a new line of literature on the Theory of Saliency, developed by Gennaioli and Shleifer (2010) and at the intersection of Cognitive Psychology and Microeconomics, to better understand the microeconomic foundations of the two biases and provide a practical tool to empirically verify some of the most recent findings in economic theory. Saliency is a human behavior that links the degree of judgment to the direction in which a part of the environment is observed (Taylor and Thompson, 1982). This theory explains the excessive reaction of professional forecasters, as well as many other economic phenomena such as credit cycles, anomalies in expected stock prices, and financial bubbles, by explaining that forecasting agents have "diagnostic expectations" in the sense of Kanheman and Tversky (1983), meaning they overestimate the frequency of certain events when they receive additional information (possibly non-substantive). Overweighing the informative content of limited information leads to judgment, potentially distorting the entire forecasting process (over time). Despite the extensive and impactful literature on this topic, two issues remain open. Strategic behavior and diagnostic expectations: Bordalo et al. (2021) explain the systematic divergence among forecasters through strategic adjustments by traders with time-varying incentives to trade based on risk expectations and speculative returns. The literature on saliency has not yet formalized the strategic behavior of economic agents.

Our first research question is:

RQ1: How to test strategic behavior in an econometric model based on inattention to saliency?

The dynamics of macroeconomic and financial saliency are another open issue. Bordalo et al. (2018, 2019, 2020) use the Diagnostic Kalman Filter (DKF) to measure excessive reaction as a power transformation of the Bayesian posterior distribution of the private signal. Standard regression (aggregate or individual) can estimate excessive reaction after DKF estimates the signal-to-noise ratio and variance of revisions. Most time series support excessive reaction. However, a time period for the evolution of such excessive reaction is not provided.

Our second research question is:

RQ2: How long will strategic excessive reaction last?

These research questions will advance macroeconomic theory. Indeed, a time series of saliency dynamics based on forecasts would allow economists to measure its correlation with phases of the economic cycle, both at the aggregate and individual levels. For empirical issues, understanding this correlation is essential to justify a structural modeling strategy of the economic cycle that takes into account revisions and excessive reaction to shocks. Consult Coibion and Gorodnichenko (2015) for ex-ante and ex-post correlation. Our hypothesis is that strategic forecasting behavior and effective measurement of the temporal evolution of strategic judgment will produce different results compared to recent literature, such as Bianchi et al. (2020).

Methodology and Implementation

This project introduces the "Saliency Structure" (SS) to relax Axioms 1 and 2. The SS considers the forecasting environment as a game among (at least) three agents: Forecast Producer (FP), Forecast User (FU), and Reality, who interact strategically according to a Forecast Protocol to avoid unfairly favoring FP or FU. This protocol tests structural coherence or coincidence (or statistically insignificant difference) between observed forecasts and model-based forecasts. If FP and/or FU fail this test, the other agents will suspect a spurious quote and will have a similar suspicion in the subsequent period. Consequently, they will update their judgment in future quotes, endogenously and excitingly biasing



the forecasting system (SJB). The "Judgment Filter" (JF) introduced by Zanetti Chini (2022) can estimate this peculiar dynamic by partitioning the time series of observed forecasts into two components in each period: that of non-sample-based estimation and that of sample-based estimation using a weighted likelihood approach. The dynamics of SJB appear to be nonlinear and imperfectly correlated with the economic cycle. These results are important, but this methodology needs improvements. The parametrization of the SS model for forecast revisions is still unknown. Empirical evidence of SJB is limited to RGDP. This project develops the SS analysis in both directions. This project produces a paper for the following activities:

Activity 1: Revised SS data representation: the state-space representation can be used to rewrite the class of (V)ARIMA models in an SS and vice versa, even with an ex-post revision bias.

Activity 2: SS estimation through a new retrospective algorithm called "Judgmental Smoother" (JS).

Activity 3: Experimenting SS-JS on US economic variables and comparing the estimated distortion parameter with the literature

Bibliography:

1. Bianchi, F., Ludvigson, SC., & Ma, S. (2020). Belief distortions and macroeconomic fluctuations, *American Economic Review*, forthcoming.
2. Bordo, P., Gennaioli, N., & Shleifer, A. (2018). Diagnostic expectations and credit cycles. *The Journal of Finance*, 73(1), 199-227.
3. Bordo, P., Gennaioli, N., Porta, RL., & Shleifer, A. (2019). Diagnostic expectations and stock returns. *The Journal of Finance*, 74(6), 2839-2874.
4. Bordo, P., Gennaioli, N., Ma, Y., & Shleifer, A. (2020). Overreaction in macroeconomic expectations. *American Economic Review*, 110(9), 2748-82.
5. Bordo, P., Gennaioli, N., Kwon, SY., & Shleifer, A. (2021). Diagnostic bubbles. *Journal of Financial Economics*, 141(3), 1060-1077.
6. Coibion, O., & Gorodnichenko, Y. (2015). Information rigidity and the expectations formation process: A simple framework and new facts. *American Economic Review*, 105(8), 2644-78.
7. Croushore, D., & T. Stark. "Fifty years of the survey of professional forecasters." *Economic Insights* 4.4 (2019): 1-11.
8. Gennaioli, N., & Shleifer, A. (2010). What comes to mind. *The Quarterly journal of economics*, 125(4), 1399-1433.
9. Maćkowiak, B., Matějka, F., & Wiederholt, M. (2021). Rational inattention: A review. ECB Working Paper no. 2570.
10. Taylor, SE., & Thompson, SC. (1982). Stalking the elusive "vividness" effect. *Psychological review*, 89(2), 155.
11. Tversky, A., & Kahneman, D. (1983). Extensional versus intuitive reasoning: The conjunction fallacy in probability judgment. *Psychological review*, 90(4), 293.
12. Zanetti Chini, E., (2022). Measuring Unobserved Strategic Judgment. WP no. 6, Department of Economics, University of Bergamo.



RESEARCH PROJECT – CODE 16

“Effects of mental disorders on health expenditure: econometric estimates based on individual data”

Research structure: Department of Economics

Department resolution: 27.05.2024

Resolution of the Academic Senate: 13.05.2024

Resolution of the Board of Directors: 14.05.2024

Gross annual amount: € 25.000,00

Financial coverage: ASSEGN0EXP24GM – CUP F53C24000110005

Duration of the grant: 24 months

Scientific area: 13 – Economics and Statistics

Competition sector: 13/ECON-04 Applied Economics

Scientific disciplinary sector: ECON-04/A Applied Economics

Scientific director: Prof. Gianmaria Martini

Entry requirement: Dottorato di ricerca in Area CUN 13 – Scienze economiche e statistiche.

Knowledge of the language: English

Additional qualifications evaluated by the Commission:

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Interview schedule:

Presentation of the job market paper.

Description of the research project:

The objectives of the research project decline the topic of mental health according to the aspect of health transmission from one generation to the next: the importance of parental mental health as a factor determining the health of children. We intend to study the mechanisms of intergenerational transmission of health, between parents and children, with a focus on parental mental health. Specifically, our goal is to identify some of the so-called "early life adversities" (a term that can be translated as "adversity in early childhood") in a population of preschool children and their effect on a range of health and social outcomes (such as school performance) of those children. In fact, children under the age of 5 are unable to describe when they are experiencing adversity in early childhood. However, this is a key formative period for children's social development and health programming, and early childhood adversity (ELA) may cast a lifelong shadow on their physical and mental health. The current literature suggests that various experiences of stress and adversity in early childhood (ELA) at the demographic, social, economic, political, community, and individual levels may act (and interact) on parents then impacting children cognitively and behaviorally, resulting in low levels of intergenerational health and social mobility in offspring, with associated social and health expenditures and economic effects at the individual level.



RESEARCH PROJECT – CODE 17

"ESG factors, materiality matrix and stakeholder engagement in management and accountability processes for a sustainable transition"

Research structure: Department of Management
Department resolution: 15.09.2023

Resolution of the Academic Senate: 22.09.2023
Resolution of the Board of Directors: 29.09.2023

Gross annual amount: € 28.200,00
Financial coverage: STARS2123AZ1SRDIP – CUP: F59C20000390001

Duration of the grant: 30 months

Scientific area: 13 – Economics and Statistics
Competition sector: 13/ECON-06 Business Administration, Accounting & Performance Measurement
Scientific disciplinary sector: ECON-06/A Business Administration, Accounting & Performance Measurement

Scientific director: Prof.ssa Silvana Signori

Entry requirement: Dottorato di ricerca Area CUN 13 – Scienze Economiche e Statistiche

Knowledge of the language: English

Additional qualifications evaluated by the Commission:

In addition to the criteria mentioned above, they will be evaluated:

- doctoral dissertation in subjects related to the SSD SECS-P/07 – Business administration; -
- participation in schools or academic courses on research methods and methodology
- participation in national or international networks.

Interview schedule:

The interview is aimed at verifying the candidate's aptitude for research and his / her knowledge of the topics of the research project, i.e. corporate sustainability and the related management and reporting tools, risk assessment and impact evaluation in business activities. In particular, the interview will focus on the research project, on the qualifications of the candidate, with particular attention to his / her publications, as well as on the knowledge of the English and / or Italian language in case of foreign candidates.

Description of the research project:

In April 2021 the European Commission published the proposal for a new Corporate Sustainability Reporting Directive (CSRD) which update the Non Financial Disclosure Regulation (NFDR) broadening its application. The Non Financial Disclosure Directive, in fact, currently applies exclusively to the so-called "public interest entities", essentially to large listed companies, banks and insurance companies, while the Corporate Sustainability Reporting Directive will require all European companies with more than 250 employees and to all SMEs listed on European markets to provide a range of information on ESG risks and impacts. The scope of application therefore extends considerably.

Furthermore, the disclosure obligations will follow the so-called "double relevance" or "double materiality" principle and will therefore include both the impact of a company's activities on the environment, on people and on society (inside-out perspective), and the operational and financial risks faced by a firm due to its exposure to sustainability (outside-in perspective). According to this



vision, ESG (Environmental, Social and Corporate Governance) issues create, in fact, risks and opportunities that are material from a double point of view: the financial one and the impact one. As the proposed Directive mentions, a significant number of companies must therefore "be required to disclose information about their business strategy and the resilience of the business model and strategy to risks related to sustainability matters, any plans they may have to ensure that their business model and strategy are compatible with the transition to a sustainable economy" from an economic, environmental and social point of view.

The research project aims to investigate how companies are organizing to respond to this important challenge in order to:

- Identify and map best practices in terms of ESG strategies, risks assessment and impacts measurement systems, double materiality matrix and reporting of the related issues;
- Monitor how companies engage with stakeholders in assessing and measuring risks, opportunities and ESG impacts;
- Outline processes and models of stakeholder engagement and accountability to support the transition towards sustainable business models.

The research project will extend the scope of investigation also to small and medium-sized enterprises. In fact, although the proposed Directive does not aim to regulate this category of companies (if not listed), many SMEs are already facing a growing demand for non-financial information - typically from banks and financial companies. The transition to a sustainable economy is likely to mean that collecting and sharing ESG information becomes a common practice for all businesses, regardless of their size.

Furthermore, a specific attention will be deserved to the ethical foundation of sustainable development and to analyse the ethical theories more suitable to drive companies to the transition towards sustainable business models.



RESEARCH PROJECT – CODE 18

“MISAI – Software Engineering Methodologies of Intelligent Autonomous Systems”

Research structure: Department of Management, Information and Production Engineering

Department resolution: 19.06.2024

Resolution of the Academic Senate: 08.07.2024

Resolution of the Board of Directors: 10.07.2024

Gross annual amount: € 25.000,00

Financial coverage:

ASSEGNI2324EXP, CUP F53C23000190005;

Duration of the grant: 24 months

Scientific area: 09 – Industrial and Information Engineering

Competition sector: 09/IINF-05 Information Processing Systems

Scientific Disciplinary Sector: IINF-05/A Information Processing Systems

Scientific director: Prof. Angelo Gargantini

Entry requirement:

Dottorato nell'area CUN Area 01 – Scienze matematiche e informatiche o nell'area 09 – Ingegneria industriale e dell'informazione.

Knowledge of the language:

English.

Additional qualifications evaluated by the Commission:

Scientific publications, including doctoral thesis and experience in research relating to the topics of software engineering, testing of complex systems, validation of algorithms and artificial intelligence programs.

Interview schedule:

The interview will focus on these topics

- Software engineering, principles and methodologies with particular reference to AI-based software.
- Use of AI to create complex software systems.
- Use of AI to support the design and validation of complex software systems.

Description of the research project:

Intelligent autonomous systems engineering is an interdisciplinary field that combines principles of software engineering, computer science, and artificial intelligence to design, develop, and validate systems that possess machine learning capabilities, adaptability, and decision-making autonomy.

The main objective of intelligent systems engineering is to establish the best processes for creating and developing systems that can internally employ artificial intelligence components. This discipline involves a series of activities ranging from the definition of system requirements and specifications, to the choice of algorithms and artificial intelligence techniques to be used, up to the realization and practical implementation of the system and its validation. The project will explore innovative solutions in different fields, focusing on a rigorous approach with strong methodological and formal foundations. In conclusion, intelligent systems engineering is a discipline that aims to create methodologies and techniques for the realization of autonomous, adaptive and intelligent systems. This rapidly growing field offers ample opportunity for innovation and the application of advanced technologies.