CALL FOR SELECTION OF N. 10 INTERNSHIP GRANTS AT THE 
DEPARTMENT OF ECONOMICS 
A.A 2018/2019

Art. 1 – Scope
1.1 The Department of Economics, within the new Center VERA (Venice center in Economic and Risk Analytics for public policies), offers students enrolled in its Master’s Degree Courses internship projects to promote the development of professional and research skills useful for their orientation and subsequent labor market integration.

1.2 Ten grants are available. The maximum duration of the internship periods will be 4 months starting from March 2019. The total funding for each internship will be € 1843.31 (gross salary). Each internship project, including specific objectives, required knowledge and skills as well as the intern tutors, is described in Annex A, which is an integral part of this announcement.

1.3 The internship will take place at the Department of Economics.

1.4 On request of the student, the internship activity can be validated as the compulsory internship to acquire university credits planned in the Department of Economics Master’s degree program to which the student is enrolled.

Art. 2 – Admission requirements
2.1 The call is reserved for students regularly enrolled in the Department of Economics Master’s Degree Courses (Economics and Finance, Global Development and Entrepreneurship, Governance of public organizations, Intercultural Development of Tourism Systems) for the 2018/2019 academic year.

2.2 These requirements must be met by the deadline indicated in the following art. 3.

Art. 3 – Applications
3.1 Applications must be submitted no later than 31st January 2019 by one of the following procedures:
   a) Delivery by hand to the Secretariat of the Department of Economics, San Giobbe, Cannaregio 873 (hours: Monday – Friday, 10 am - 1 pm);
   b) Sending to the following Address of Certified Electronic Mail (CEM): protocollo@pec.unive.it. Please consider that the message can only be sent by another Certified Electronic Mailbox; the application sent by a non Certified mailbox cannot be considered valid. Documents must be attached in PDF format only;
   c) Sending by ordinary e-mail to the following address: centro.vera@unive.it. Documents must be attached in PDF format only;
   d) Sending by certified mail with return receipt to the following address: Università Ca’ Foscari - Dipartimento di Economia, San Giobbe, Cannaregio 873, 30121 Venezia. In this case, please note that the date considered as proof is the date of receipt and not the postmark date.

Ca’ Foscari University will close for Christmas from 22nd December 2018 until 6th January 2019.
3.2 The application form must include also the following documents:
- Dated and signed Curriculum vitae
- Self certification of exams taken (marks and numbers of university credits – CFU, Crediti Formativi Universitari)
- Motivation letter, using the format attached to this announcement
- Scanned copy of a valid ID document.

3.3 Applications received after the deadline or applications received through other procedures, or unsigned applications will not be considered valid.

3.4 The University is not responsible for any failure to receive communications due to incorrect or incomplete indication of address by the applicant or to the lack of or the untimely communication of change of address, as well as possible postal mistakes not attributable to the fault of the administration itself.

Art. 4 – Commission and selection of applicants
4.1 A commission appointed by Decree of the Department Director will evaluate the candidates on the basis of their qualifications and motivation letters.

4.2 In a preliminary session, the Commission will define the evaluation criteria and the scoring rules for the professional and academic curriculum vitae and for the motivation letter, as well as the minimum threshold for grant eligibility.

4.2 The ranking list will be formulated on the basis of the following criteria:
- weighted average exam marks;
- numbers of University credits (CFU, Crediti Formativi Universitari);
- evaluation of the Curriculum Vitae;
- evaluation of the motivation letter that should set out in particular the student’s interests, the coherence between academic background and the activities and objectives of the internship projects, as well as the preferential qualifications/skills and knowledge required for each project (See Annex A).

4.3 The following applications will be excluded from evaluation:
- Applications which do not comply with the admission requirements of the announcement
- Applications which do not comply with the instructions indicated in art.3

Art. 5 – Ranking list
5.1 At the end of the evaluation process, the Commission will draw up a ranking list in order of decreasing scores of each candidate.

5.2 The ranking list will be published on the web site of the Department of Economics at the following web address https://www.unive.it/pag/16891/ by mid-February.

Art. 6 - Assignment of grants
6.1 At the end of the evaluation process, the Secretariat of the Department of Economics will notify the selected candidates, communicating the starting date of the internship grant.

6.2 The Winners will have to send their acceptance (via e-mail to the following address: centro.vera@unive.it) within 5 days from notification. If a candidate turns down a grant, it will be assigned to the candidate ranked next.

6.3 Grants will be paid in one single instalment at the end of the internship after the submission of the final report approved by the academic tutor.
6.4 The assignment of Internship grants is subject to the possession of student status at the beginning of the internship period.

Art. 7 – Obligations for winners
7.1 Winning students, with the support of the “company” and academic tutors, must, as a condition of the grant, agree to carry out the approved procedures to set up their internship, to prepare training projects and all the related administrative procedures.

Art. 8 – Cross-reference
8.1 For any relevant matters not mentioned in the call, reference is made to the current University Regulation for the assignment of grants, study awards and incentives to students to sustain enrollment for courses and other specific learning activities.

Art. 9– Person in charge of the procedure
9.1 The person in charge of the selection procedure, within Law n.241/1990, is the Secretary of the Department of Economics, Ing. Silvia Lovatti. For further information concerning the selection procedure, please send an e-mail to centro.vera@unive.it

Art.10 – Processing and protection of personal data
9.1. Personal data sent by the candidates with the application forms will be processed according to national and European legislation (Italian Legislative Decree n. 196/2003 and Regulation EU 2016/679). Attached the information regarding the processing of personal data.

[Signature]
Department Director
Prof. Monica Billio

Person in charge of the procedure
Ing. Silvia Lovatti
INFORMATION REGARDING THE PROCESSING OF PERSONAL DATA

According to Art. 13 of the EU Regulation 2016/679, personal data provided by the candidates or otherwise acquired by the University will be processed at Ca’ Foscari University exclusively for the completion of the selection procedure, by the people specifically appointed to carry out data collection and processing (also through the use of IT procedures) in the manner and within the limits necessary to pursue the purposes indicated.

Data will be stored according to the rules for the conservation of administrative documentation.

The data processor is Ca’ Foscari University, with headquarters in Venice – Dorsoduro no. 3246 - PEC protocollo@pec.unive.it.

Personal data provided are necessary to evaluate the admission requirements and qualifications of the candidates. Lack of personal data required can preclude this evaluation, with the consequent exclusion from the selection procedure. To take part in the selection, it is not necessary to provide sensitive personal data such as for examples data on health, sexual orientation, political views. Therefore, candidates are asked to not provide these kind of data, if not necessary for a better evaluation of their position.

The ranking list will be published according to the current legislation.

Communication to third parties is not foreseen except to entities to whom data must be transmitted in compliance with legal obligations, to entities that perform services on behalf of the University or, on request, to judicial bodies. The same information could be communicated to public administrations directly interested to the economic and legal position of the candidate recruited. The data of recruited candidates will be disseminated in order to fulfill the obligations on transparency.

In the cases provided for in the Regulation, it is possible to obtain access to personal data, to obtain the correction, integration, cancellation of the same data, to limit as well as to oppose the processing of personal data (art 15 and ss. of Regulation). The access request can be made, without any formalities, by directly contacting the Data Protection Manager at the following address dpo@unive.it or sending a request to the following address: Università Ca’ Foscari Venezia - Responsabile della Protezione dei Dati, Dorsoduro n. 3246, 30123 Venezia. Otherwise, it is also possible to contact the data processor, sending an e-mail to the following address of Certified Electronic Mail (CEM): protocollo@pec.unive.it.

If the candidate considers that the processing of her/his personal data infringes the Regulation, she/he has the right to lodge a complaint with the Data Protection Authority, according to art.77 of the Regulation, or the right to undertake legal proceedings (Art. 79 of the Regulation).
ALLEGRO

1. DATA ANALYTICS FOR WEALTH MANAGEMENT

PROJECT DESCRIPTION:
Recently technological advancement and large availability of data pathed the way the development of new resources in the personal wealth management. Risk profiling is a key element of the process and has a specific relevance, also, from a regulatory point of view. Indeed, the inadequate assessment of the client's risk profile can be a weakness of robo-advisory. On the other hand, the large availability of data represents a rich source of information on the client that can improve the service. The aim of the research is to study how the use of artificial intelligence and robo-advisory platforms can affect and modify risk profiling. To this aim the research will tackle the following steps:
1. Analysis of the on-line risk profiling and matching tools implemented by robo-advisory platforms.
2. Review of literature contributions on risk profiling with specific reference to risk appetite and risk capacity.
3. Development of a goal-based tailored decision model that allows to include a variable risk profile with respect to market conditions and life-time cycle.

A final report where methods and results are discussed is part of the research output.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Higher average marks in statistics and mathematics, taken and passed the exams in econometrics and numerical methods for economics and finance. Programming skills (MATLAB, R, Phython) and statistical data analysis.

TUTOR: Diana Barro

2. MULTILINEAR ALGEBRA AND TENSORS FOR DIMENSIONALITY REDUCTION METHODS

PROJECT DESCRIPTION:
In many different fields, the large dimension and complex structure of the data gathered can make simple statistical methods difficult to apply. Dimensionality reduction techniques allows the researcher to deal with the dimensionality issues. Among these techniques, tensor methods are gaining popularity. The aims of the research are:
• to provide a review of tensor algebra and tensors models applied in dimension reduction approaches with focus on low rank decomposition methods, regression and factor models;
• to build new models and inference methods for the analysis of high dimensional data;
• to develop the code for the analysis;
• to check the effectiveness of the proposed methods on both simulated data and real data;
• to write a final report where methods and results are presented and discussed.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Programming skills in MATLAB, statistical data analysis; otherwise experience in R or Phyton can be considered; higher average marks in statistics and mathematics, taken and passed the exams in econometrics and numerical methods for economics and finance.

TUTOR Monica Billio, Roberto Casarin

3. PREDICTIVE POLICING METHODS

PROJECT DESCRIPTION:
The availability of big data on the criminal activity and on the regular human and economic activities in urban areas allows for predicting crimes and for a more effective police activity. The aims of the research are:
to provide a review of the quantitative methods used in predicting crimes (e.g., data mining, regression models, risk terrain, agent Based) with large dataset;
- to provide suitable frameworks for predicting crime in urban areas (e.g. for the city of Venice), for cleaning data and discovering false positives in crime raw data;
- to develop the code for the analysis;
- to check the effectiveness of the proposed methods on both simulated data and real data;
- to write a final report where methods and results are presented and discussed.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Programming skills in R, statistical data analysis; otherwise experience in MATLAB o Phython can be considered; Higher average marks in statistics and mathematics, taken and passed the exams in econometrics and numerical methods for economics and finance.

TUTOR: Monica Billio, Roberto Casarin

4. ANALYZING AND MODELLING THE INTERLOCKING DIRECTORATE NETWORK IN THE ITALIAN FIRMS

PROJECT DESCRIPTION:
In the interlocking directorate network an edge between two firms emerges when one or more CEOs of two different firms sit on each other’s boards.
- to review the literature on interlocking directorates from different fields with emphasis on the more recent modelling and empirical findings;
- to extract the interlocking directorate networks for Italian firms and to provide network analysis;
- to make inference on random network models using interlocking directorate data and develop further empirical investigations on the relationship between the network topology and the balance sheet indicators;
- to write a final report where methods and results are presented and discussed.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Programming skills in R, statistical data analysis; otherwise experience in MATLAB o STATA can be considered; Higher average marks in statistics and mathematics, taken and passed the exams in econometrics and numerical methods for economics and finance.

TUTOR: Roberto Casarin, Giacomo Pasini

5. DIMENSIONALITY REDUCTION TECHNIQUES FOR ENTROPY ESTIMATION

PROJECT DESCRIPTION:
Entropy measures are widely used in various fields. The spanning length of the graph can be used to estimate entropy and information divergence. The application of this estimator on large datasets can be challenging. The aims of this research are:
- to review the minimum spanning tree algorithms and the application to entropy estimation;
- to develop dimensionality reduction techniques to make feasible the application of this estimator to large datasets;
- to study the properties and effectiveness of the estimator on simulated datasets and on large financial and economic data;
- to write a final report where methods and results are presented and discussed.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Programming skills in R, statistical data analysis; otherwise experience in MATLAB o Phyton can be considered; Higher average marks in statistics and mathematics, taken and passed the exams in econometrics and numerical methods for economics and finance.
6. LIKELIHOOD FREE METHODS FOR INFERENCE ON COMPLEX MODELS WITH APPLICATION TO NETWORKS DATA.

PROJECT DESCRIPTION:
Complex models often have intractable likelihoods, so methods that involve evaluation of the likelihood function are infeasible. The aims of the research are:
- to provide a review of the likelihood free methods (e.g., ABC or synthetic likelihood) used in fitting complex models large dataset;
- to use likelihood free methods to make inference on complex models such as random networks models;
- to develop the code for the analysis;
- to apply the model and methods for networks data from economics and finance such as trade, financial flows networks, financial contagion networks;
- to write a final report where methods and results are presented and discussed.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Programming skills in R, statistical data analysis; otherwise experience in MATLAB o Phyton can be considered; Higher average marks in statistics and mathematics, taken and passed the exams in econometrics and numerical methods for economics and finance.

TUTOR: Stefano Tonellato, Roberto Casarin

7. BAYESIAN INFERENCE FOR NETWORK MODELS WITH APPLICATION TO NETWORKS DATA

PROJECT DESCRIPTION:
The aims of the research are:
- to use Bayesian inference methods making inference and model selection for network models in the class of exponential random graphs;
- to develop the code for the analysis;
- to apply the model and methods for networks data from economics and finance such as trade, financial flows networks, financial contagion networks;
- to write a final report where method and results are presented and discussed.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Programming skills in R, statistical data analysis; otherwise experience in MATLAB o Phyton can be considered; Higher average marks in statistics and mathematics, taken and passed the exams in econometrics and numerical methods for economics and finance.

TUTOR: Roberto Casarin, Stefano Tonellato

8. COLLECTING DATA ON DIVORCE AND SEPARATION LEGISLATION IN EU27 COUNTRIES

PROJECT DESCRIPTION:
This project is part of a line of research that we have developed in the last years. We are studying the effect of divorce and separation on a battery of socioeconomic and health outcomes at the individual level. In order to identify the causal effect of family dissolution, we would like to exploit the heterogeneity across countries and over time in the divorce and separation legislation. This project consists of:
- a) Collecting country-specific information about current and previous legislation on divorce and separation (from 1960 onwards, at least);
- b) Defining variables comparable across countries and individuals summarizing the main features of these legislations (for instance, years of separation needed to get a divorce, alimony calculation rules).
c) Analysis of the correlation between this contextual information and the probability of divorce and separation of individuals
The last point will be developed only if the research assistant decides to extend this work in a master thesis project supervised by us. Otherwise, only points a) and b) are required.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Previous experience with the utilization of the econometric software STATA is useful.

TUTOR: Danilo Cavapozzi, Giacomo Pasini

9. UNDERSTANDING PENSION WEALTH EXPECTATIONS IN EUROPE

PROJECT DESCRIPTION:
This research is part of a broader project analyzing the consequences of pension system reforms on household savings in Europe. The research assistant (RA) will use SHARE (Survey of Health, Ageing and Retirement in Europe) data to assess the differences across countries and over time in the workers’ expectations concerning replacement rate and retirement age and to understand their relationship with the pension reforms implemented in Europe in the last decades. Moreover, she/he will assess how these expectations vary with individual characteristics such as gender, birth cohort and education.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
The development of the project will require the utilization of the econometric software STATA. Previous experience in the utilization of this software will be taken into account in the evaluation of the candidates.

TUTOR: Michele Belloni, Danilo Cavapozzi

10. ATTITUDES AND BEHAVIOUR TOWARDS IPM FOOD PRODUCTS: POLICY IMPLICATIONS FROM A SURVEY

DESCRIZIONE DEL PROGETTO:
I modelli di consumo alimentare stanno evolvendo a seguito del crescente interesse verso le questioni ambientali, salutistiche e nutrizionali: la qualità e la sicurezza degli alimenti attraggono sempre di più il consumatore. Le ricerche in questo campo sono numerose, ma focalizzate sul confronto prodotti convenzionali/biologici. A questo interesse corrisponde una domanda crescente, ma marginale se rapportata al consumo alimentare globale. Poco esplorato dalla letteratura, per contro, è il comportamento e le disponibilità a pagare dei consumatori nei confronti di prodotti ottenuti con metodi produttivi a minor utilizzo di pesticidi, quali i metodi IPM (Integrated Pest Management). Attraverso un'analisi quantitativa dei dati ottenuti da una survey, la ricerca si propone di studiare le percezioni, l'atteggiamento e il comportamento dei consumatori nei confronti di queste produzioni, messe a confronto con quelle biologiche. Nello specifico, si propone di dare risposta ad alcune particolari questioni: in che misura le differenze sociali, culturali, economiche influenzano l'atteggiamento e il consumo e in che misura gli atteggiamenti influenzano i comportamenti. Ci si attende che dall'analisi discendano possibili suggerimenti per le autorità pubbliche (europee, nazionali e regionali).

TITOLI/COMPETENZE PREFERENZIALI DA SPECIFICARE NELLA LETTERA MOTIVAZIONALE:
Conoscenza linguaggio R, STATA, Sistemi di supporto alle decisioni (DSS), familiarità con temi legati al settore primario e comportamento del consumatore

TUTOR: Bruna Zolin, Paola Ferretti

11. RISORSE NATURALI, SVILUPPO TERRITORIALE SOSTENIBILE E ATTIVITÀ CONNESSE

DESCRIZIONE DEL PROGETTO:
I sempre più frequenti eventi estremi naturali, che recentemente hanno colpito l’Italia e più in generale l’Unione Europea, confermano l’importanza di assumere politiche che garantiscono il mantenimento di un minimo di popolazione in ambiti rurali e, di conseguenza, il raggiungimento di uno sviluppo sostenibile capace di valorizzare le risorse naturali locali in un’ottica di tutela ambientale. Tra le attività di integrazione del reddito delle imprese agricole, spesso penalizzate da ambienti che ne limitano le scelte, rientrano le attività ricreative e, in particolare, l’agriturismo.

Nel lavoro proposto ci si prefigge di analizzare l’offerta del settore agrituristico, a partire dalla regione Veneto ed estendendola a altre aree, al fine di evidenziare, dal lato dell’offerta, quanto queste attività consentano alle aziende redditi soddisfacenti e duraturi. Dal lato della domanda, in che misura alcuni fattori economici, sociali, ambientali (compresa l’accessibilità) influenzino le scelte turistiche, così da suggerire politiche di utilizzo del territorio volte a garantire uno sviluppo territoriale e turistico sostenibile. L’analisi potrà essere estesa anche ad altri stati membri dell’UE, vista la crescente, generale e diffusa domanda turistica e l’impegnamento delle aree rurali. L’individuazione di opportuni indicatori “sentinella” potrà orientare i policy maker nella pianificazione territoriale sostenibile.

TITOLI/COMPETENZE PREFERENZIALI DA SPECIFICARE NELLA LETTERA MOTIVAZIONALE:
Familiarità con il linguaggio R e con le problematiche territoriali o del settore primario

TUTOR: Bruna Zolin, Paola Ferretti

12. THE USE OF MONTE CARLO SIMULATION IN SOCIO ECONOMIC STUDIES: A TASTE OF SCIENCE?

PROJECT DESCRIPTION:
Monte Carlo has emerged as one of the most straightforward and powerful tools for probabilistic simulation in many fields. Socio economic studies have been touched by this phenomenon so that nowadays one can find a number of published applications that defies precise quantification but can probably be counted in hundreds. Yet, to our best knowledge, no reflection on the use, and possible misuse, of this technique has been performed to day at least in the economics field (a somehow similar attempts exist for environmental sciences: (Ferson 1996)). A possible cause is that the numerosity of the applications defies any reasonable attempt of exhaustive metaanalysis. The purpose of the proposed activity is to address this gap based on a selection of 20 papers that cover the various typologies of documents (published articles, reports) and a large set of topics. Our purpose is to investigate the use of Monte Carlo by economists, and to identify possible misuses, linked for instance to arbitrariness in the selection of deterministic vs. stochastic variables, in the selection of given distributions or distribution parameters.

Il tema è particolarmente focale per le attività del centro VERA. La collaborazione si inserisce in un progetto d'articolo, accolta per una special issue della rivista Oeconomia (classificata ANVUR) e oggetto di un probabile congresso a Parigi in primavera 2019. In caso di contributo serio e continuativo (fino al termine della pubblicazione) dello studente, potrà apparire come co-autore della pubblicazione.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Knowledge of statistics, ability to reflect, interest for economic modelling.

TUTOR: Jérôme Massiani

13. L’ANALISI COSTI BENEFICI AGLI EVENTI SPORTIVI E CULTURALI: STATO DELL’ARTE E APPLICAZIONE

DESCRIZIONE DEL PROGETTO:
Sono ormai reperibili più di 50 applicazioni dell’analisi costi benefici a eventi culturali e sportivi. In New South Wales e nei Paesi Bassi sono inoltre stati pubblicati recenti linee guide sull’applicazione di questo approccio. L’attività dello studente consistere nell’analisi sistematica di una selezione di questi casi e, in interazione con il docente, alla definizione e l’applicazione di una serie di criteri di ragionevolezza al modus operandi dei singoli studi. Il lavoro implicherà una critica delle modalità adoperate e proposte metodologiche. Si applicheranno i risultati a alcuni eventi reali;
Il docente ha proposto un abstract in corso di valutazione per la Conferenza annua della Society for Cost Benefit Analysis (il docente è componente del selection comitee della conferenza) che avrà luogo a Washington a Marzo 2019. L'input dello studente potrebbe essere utile per questa scadenza. In caso di contributo serio, continuativo (fino al termine della stesura di un determinato prodotto della ricerca) lo studente potrà essere considerato co-autore di quest'ultimo.

TITOLI/COMPETENZE PREFERENZIALI DA SPECIFICARE NELLA LETTERA MOTIVAZIONALE:
Costituiscono un vantaggio lo spirito crítico, l'interesse per le politiche pubbliche.

TUTOR: Jérôme Massiani

14. LEARNING ANALYTICS: ANALISI DEI DATI PER IL MIGLIORAMENTO DEI PROCESSI D'INSEGNAMENTO

DESCRIZIONE DEL PROGETTO:
Ci si propone di
- analizzare e definire le attività e gli scopi della learning analytics, lo studio sistematico dei dati generati da sistemi di gestione di corsi online per migliorare la comprensione del processo didattico e il suo miglioramento (in sensi da definire dopo un'analisi della letteratura);
- analizzare sperimentalmente dei dati prodotti da uno o più corsi erogati su moodle a Ca' Foscari (i cosiddetti logs);
- scrivere il software necessario all'analisi/visualizzazione dei dati e del relativo manuale d'uso (o linee guida per pacchetti e software già esistenti) per consentire replicabilità e scalabilità dei risultati.

TITOLI/COMPETENZE PREFERENZIALI DA SPECIFICARE NELLA LETTERA MOTIVAZIONALE:
Competenze di R e pacchetti per data-mining, caricamento e pulizia di dati specie in vari formati, anche in grandi quantità, visualizzazione ed analisi statistica; in alternativa, esperienza in phython può essere considerata; superamento con media elevata di almeno 18 crediti di statistica, matematica, analisi di dati, informatica; nozioni di programmazione in qualche linguaggio di programmazione e esperienza pregresse come tutor didattico online su moodle.

TUTOR: Paolo Pellizzari

15. CRISI BANCARIA E TEXT-MINING

DESCRIZIONE DEL PROGETTO:
Ci si propone di analizzare gli articoli del Sole 24 Ore dal 2009 al 2016 circa per analizzare i testi che hanno per oggetto i fallimenti bancari in Veneto. In particolare, l'obiettivo è analizzare l'intensità della copertura mediatica del fenomeno (presumbilmente moderata all'inizio e intensa alla fine) e linguaggio utilizzato (ad esempio: solo "cattiva gestione" all'inizio e "frode" alla fine del periodo). Potrebbero essere oggetto di analisi anche le relazioni finali delle commissioni d'inchiesta parlamentare (fine 2017) e regionale (2016).

TITOLI/COMPETENZE PREFERENZIALI DA SPECIFICARE NELLA LETTERA MOTIVAZIONALE:
Competenze di R e pacchetti per l'analisi di testo (ad esempio, tm); in alternativa phython e strumenti per l'analisi del testo; elementi di data mining, statistica, programmazione in qualche linguaggio di programmazione.

TUTOR: Paolo Pellizzari

16. TRADING SYSTEM DATA-DRIVEN

DESCRIZIONE DEL PROGETTO:
L'obiettivo della tesi è la definizione di un trading system data-driven basato su un set di indicatori e oscillatori derivanti dall'analisi tecnica. Il principale aspetto problematico da affrontare e risolvere è la selezione degli
indicatori da combinare per definire il trading system. Indicatori e oscillatori che dipendono da uno o più
parametri che tradizionalmente sono scelti in base a valutazioni soggettive. In tale lavoro si è interessati ad
utilizzare delle procedure basate su algoritmi evolutivi per la stima di tali parametri. Un secondo aspetto,
connesso al primo, è a selezione delle regole di trading cioè determinare come combinare i diversi segnali
ottenuti dagli indicatori per delineare un'operatività.

TITOLI/COMPETENZE PREFERENZIALI DA SPECIFICARE NELLA LETTERA MOTIVAZIONALE:
Familiarità con linguaggio di programmazione R, Conoscenze basilari di analisi statistica delle serie storiche.

TUTOR: Claudio Pizzi

17. INDICI DISUGUAGLIANZE POVERTÀ

DESCRIZIONE DEL PROGETTO:
L'obiettivo della tesi è la definizione di un trading system data-driven basato su un set di indicatori e oscillatori
derivanti dall'analisi tecnica. Il principale aspetto problematico da affrontare e risolvere è la selezione degli
indicatori da combinare per definire il trading system. Indicatori e oscillatori che dipendono da uno o più
parametri che tradizionalmente sono scelti in base a valutazioni soggettive. In tale lavoro si è interessati ad
utilizzare delle procedure basate su algoritmi evolutivi per la stima di tali parametri. Un secondo aspetto,
connesso al primo, è a selezione delle regole di trading cioè determinare come combinare i diversi segnali
ottenuti dagli indicatori per delineare un'operatività.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Familiarità con linguaggio di programmazione R, Conoscenze basilari di analisi statistica delle serie storiche.

TUTOR: Claudio Pizzi

18. A BIG DATA ANALYTICS METHOD FOR FORECASTING TOURISM FLOWS

PROJECT DESCRIPTION:
Accurate tourist flow forecasting is always the most important issue in tourism industry. The availability of big
data (such as TripAdvisor data) allows for improving destination management organization's decision support.
The aim of the research is:
  • to review the literature on the use of big data and social media-generated big data, for decision support
    in the tourism sector;
  • to extract and analyze social media-generated big data following various methods such as network
    analysis tools;
  • to forecast tourism flows by applying time series models to the media-generated data;
    to write a final report where methods and results are presented and discussed

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Programming skills in R, statistical data analysis; otherwise experience in MATLAB or Phyton can be
considered; Higher average marks in statistics and mathematics, taken and passed the exams in econometrics
and numerical methods for economics and finance.

TUTOR: Jan Van Der Borg

19. GENDER GAP IN OUT-OF-POCKET HEALTHCARE EXPENDITURE

PROJECT DESCRIPTION:
The research project aims at exploring the gender gap in out-of-pocket healthcare expenditures among
partners in couples of older people. Controlling for a comprehensive battery of objective and subjective health
measures, indicative of healthcare needs, a first aim is that of measuring horizontal and vertical equity in
household budget share allocation to each partner healthcare. The second aim is to explain how the registered gap reflects partners’ bargaining power in relation to their fertility and respective employment life history. The research assistant will provide support with respect to a) systematic literature review b) exploratory analysis of internationally available data sources and application procedures for possible non-EU data sources c) possibly, data cleaning and preliminary analysis.

PREFERENTIAL QUALIFICATIONS/SKILLS TO SPECIFY IN THE LETTER OF MOTIVATION:
Preferably students in their second year of Master’s Degree Courses in Economics and Finance.

TUTOR: Francesca Zantomio