



Università
Ca' Foscari
Venezia

Research fellowship on - *Heterogeneity, social interactions and scale in macroeconomic models* - Università Ca' Foscari Venezia (Italian law 30 December 2010, n.240, art. 22)

The present document in English is to be considered as a mere summary of the main provisions of the notice of competition which is available in Italian at the following link: <http://www.unive.it/data/12137/> The text in Italian is the official text of the notice of competition for all legal intents and purposes and, in the event of non-conformity with the present document, it shall prevail.

Description

The Department of *Economics* at Università Ca' Foscari Venezia invites applications for a fellowship in:

- **Title:**
Heterogeneity, social interactions and scale in macroeconomic models.
- **Academic Discipline or disciplines specifically identified by the call** SECS/P02, SECS/P01, SECS/S06
- **scientific coordinator and tutor:** Prof. Andrea Teglio
- **duration:** 30 months

abstract:

The research fellow will work in the context of the PRIN project "At the frontier of agent-based modeling: a new data driven framework for policy design toward sustainable and resilient economies" under the scientific supervision of Prof. Andrea Teglio (coordinator of the research unit). The project provides for and supports collaborations with the PRIN partners of the Scuola Superiore Sant'Anna of Pisa, the University of Genoa and the University of Macerata. The research work will focus on the disaggregation (or "agentisation") of classical macroeconomic models. The objective of the grant is to develop and analyze interacting agents models, derived from the disaggregation of representative agent models, which often operate in a context of general equilibrium. By comparing the results of the agent-based models with the analytical counterparts, the research fellow will identify the most significant effects of the agentisation process, verifying the strengths and weaknesses. In particular, the research fellow will analyze issues related to the appropriate level of heterogeneity, to scale factors, and to the interaction between agents in different network configurations, comparing the results at different scales and different complexity of economic agents with those of the original models.

Who can apply

Prospective candidates are expected to hold a master's degree in the subjects of the research, or related disciplines.

Ca' Foscari encourages applications from researchers with positive evaluation in all the criteria in individual proposals such as Marie Skłodowska Curie Actions - Individual Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar.

Researchers having successfully completed Marie Skłodowska Curie Actions - Individual



Fellowships/ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) or similar funded projects are warmly encouraged to apply.

Preferred qualifications

- doctoral degree;
- completing attendance in a doctoral program while awaiting the award of the degree;

A doctorate in economics is preferential to other doctorates in science and quantity.

- Specialization diplomas and certificates of attendance at postgraduate specialization courses with research topics related to the subject of the check, obtained both in Italy and abroad; the performance of documented research activities in public and private entities with contracts, scholarships or assignments both in Italy and abroad with research topics related to the subject of the research fellowship

Topics on which the interview will focus

- - Basics of macroeconomics.
- - Basics of mathematical knowledge and programming languages.

During the interview, knowledge of English as a foreign language will be tested.

Duration of contract: 30 months (approximately starting on October 2022).

Stipend: The research fellowship amounts to **Euro 23.542,13** per year, gross to the recipient, net of the expenses to be sustained by the Provider (amounting to € 58.855,32 in 30 months, gross to the recipient). The amount may be subject to adjustment in the event of variations in the law.

Deadline for submission of applications: by and no later than 2022-09-09, h. 12:00 noon – local time.

If the deadline is on Saturday or on holidays, the deadline is extended to the first working day thereafter.

WARNING!!!! Please note that the University is closed for the summer break from 13 to 21 August 2022. We strongly recommend that you DO NOT send applications for participation that must be received during the closing period indicated

How to apply:

Candidates should submit:

1. The application form;
2. A motivation letter (max 1 page) along with their CV in European format, duly dated and signed, both to enclosed as a one single.pdf file. (<http://www.unive.it/pag/28830>)
3. A copy of a valid identity document (either Identity Card or Passport);
4. (If available) Evaluation Summary Reports of Marie Skłodowska Curie Actions - Individual Fellowships/ ERC Starting Grants/FIRB (Italian Fund for basic research investments)/SIR (Scientific Young Independence Research) individual proposals having passed all the evaluation thresholds;
5. (If available) Doctoral degree - Ph.D. in *economics* is preferential to other Ph.D.s in science and quantity;
6. Declaration on availability to held the interview in remote (<https://www.unive.it/pag/28830>) to



be send via email at the following address: simar@unive.it:

7. (If available) Details of Marie Skłodowska Curie Actions - Individual Fellowships, ERC Starting Grants, FIRB (Italian Fund for basic research investments)/ SIR Scientific Young Independence Research funded projects;
8. All documents, qualifications and publications relevant for the selection procedure (please, see the notice <http://www.unive.it/data/28825/>).

All the schemes of the quoted documentation are available on the website

<http://www.unive.it/pag/28830>.

How to submit your application

Applications should be submitted by the online procedure, available on the notice webpage

<http://www.unive.it/data/28825/>

Or submit here:

<https://apps.unive.it/domandeconcorso-en/accesso/dec-tegliocofinprin-15072022>

The candidate, after the uploading, will receive a submission number and an e-mail acknowledging receipt of his/her application.

The candidate if necessary could access the procedures for updating any data and materials by the link provided by the e-mail, in any case any updates must be made no later than the deadline

2022-09-09, h. 12:00 noon – local time.

If the deadline is on Saturday or on holidays, the deadline is extended to the first working day thereafter.

Please note:

- The candidate can contact the University for any support until 24 hours prior to the deadline.
- In case of an high number of applications and / or weight of the materials loaded by the candidates the system might become slower, Therefore it is suggested not to start the process close to the deadline;
- The University does not take on responsibility for wrong or late communication of addresses, nor for any communication problem not depending on the University.

Evaluation

Up to 100 points, specifically:

For qualifications, publications and possible tests, from 0 to 60;

For interview, from 0 to 40.

Selection procedure

The interview will held in remote only. Further details on how to connect online will published on the web page alongside the convocation notice.

The interview will be on **2022-09-16, at 10.00 AM.**

The short-list of the candidates admitted to the interview, or any postponement, will be published on the University's webpage on **2022-09-12** (<http://www.unive.it/data/28899/>).



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Information and contacts

Candidates may find further details about the application process and the research project in the official call published on the following webpage <http://www.unive.it/data/28825/>

For further information please contact: Segreteria Amministrativa del Dipartimento di Economia, phone number: 041-2349173; e-mail: simar@unive.it