



DIPARTIMENTO DI MATEMATICA

CALL FOR APPLICATIONS FOR N. 1 VISITING RESEARCHER POSITION

Project “Holomorphic, Reproducing Kernel Hilbert spaces and their applications to stochastic processes and vision models”

Purpose

The **Call for applications for n. 1 visiting researcher positions - Project “Holomorphic, Reproducing Kernel Hilbert spaces and their applications to stochastic processes and vision models”**, approved by the **Department board** session (“*Giunta di Dipartimento*” in italian) of **Monday, September 21, 2020**, pursues the goal of enhancing the internationalisation of the scientific community of the Department of Mathematics by attracting new visiting researchers.

The visiting researcher will carry out scientific research in the following key areas of interest for the Department of Mathematics: **Mat/05 – Analysis**

Project “Holomorphic, Reproducing Kernel Hilbert spaces and their applications to stochastic processes and vision models”

Study determinantal point processes on C induced by the reproducing kernels of generalized Fock spaces as well as those on the unit disc D induced by the reproducing kernels of generalized Bergman spaces. Exploit properties of reduced Palm measures and rigidity of these determinantal point processes in the sense of Ghosh and Peres. Proof of the conjecture of Lyons and Peres for a determinantal point process governed by a reproducing kernel. Relations between these results and models of the cortex will be considered. In particular models of pinwheels structures.

*The **scientific manager** of the project is **prof. Giovanna Citti**. The project and the activities will be carried on in **collaboration** with **prof. Nicola Arcozzi***

Beneficiaries

This call is open to scholars and experts,

- of high scientific standing and proven international reputation currently working abroad at universities or research centres.
- *large experiences as visiting researcher in research centres (universities and others)*
- *proved ability to attract funds and training young researchers*
- *large scientific production on international peer review journals*

eligible to apply as:

R4 Leading Researcher (researchers leading their research area or field)

Application is open exclusively to: *candidates who are carrying out scientific research in a Country other than Italy as a scholar or expert with **adequate scientific qualification comparable to “full professor” position or equivalent, at foreign institutions***

The visiting researchers will be hosted at the Department of Mathematics for **1 months and 1 week**. Research activities will have to start **no later than October 15, 2020 (end date: November 22, 2020)**

Remuneration

The visiting researchers will receive a salary of **€ 7.000,00 gross** of all charges applied to the recipient, including insurance coverage against accidents and third-party liability (called ‘RCT’ in Italy).

The Department of Mathematics will provide the visiting researchers with the necessary facilities and equipment for carrying out their research activities.



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Application submission: terms and methods

Application must be submitted **from September 24, 2020 to October 9, 2020, at 12:00 am CET exclusively by e-mail to dipmat.amministrazione@unibo.it**

The application must include:

- the application form filled in with the personal and professional data of the visiting researcher (annex 1)
- full scientific and professional curriculum and list of publications
- letter of intent (stating the period of stay, the research area of interest and the planned activities)
- a scanned copy of the applicant's valid passport or ID

Applications received in any different way shall not be accepted.

Award criteria

The applications will be evaluated by a selection committee appointed by the Department board ("*Giunta di Dipartimento*" in Italian) on the basis of the following criteria:

1. scientific profile of the candidate
2. originality of the visiting researcher's mobility project
3. relevance of the mobility project with regard to the scientific development objectives of the Department.

Winners will be notified of the award of the position, via e-mail, by **October 15st 2020**. They will be sent an invitation letter containing all the necessary information on the position offered, the remuneration and the reimbursement of expenses.

Final provisions

For all aspects not regulated by this call for applications, the Italian law and the University of Bologna Statute and Regulations apply.

Information notice concerning data processing

Personal data collected are processed as described in the "*Informativa per i partecipanti a concorsi e selezioni banditi dall'Ateneo*" available (in Italian) at: www.unibo.it/privacy.

The information is published in compliance with artt. 13 and 14 of Regulation (EU) 2016/679 (GDPR).

Contacts

For further information please contact dipmat.amministrazione@unibo.it

The procedure manager is **Dott. Giovanna Piazza**

Bologna,
September 24, 2020

The Head of Department
Prof. Giovanni Dore
[digitally signed]



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ANNEX 1

APPLICATION

CALL FOR APPLICATIONS FOR N. 1 VISITING RESEARCHER POSITIONS. Project “Holomorphic, Reproducing Kernel Hilbert spaces and their applications to stochastic processes and vision models”

To the Head of Department of Mathematics

THE UNDERSIGNED

SURNAME _____

NAME _____

BORN IN _____ (PROVINCE/COUNTRY _____)
ON _____

(fill in exactly the same personal details as shown in the enclosed copy of passport or identity document)

E-MAIL (compulsory) _____

HEREBY APPLIES

for the call for applications concerning n. 1 visiting researcher, for the following period

from October 15, 2020 to November 22, 2020

AND ENCLOSES THE FOLLOWING DOCUMENTS:

- copy of passport. EU/EEA/Swiss citizens can attach copy of their ID
- full scientific and professional curriculum and list of publications
- letter of intent (stating the period of stay, the research area of interest and the planned activities)

The undersigned also declares that all notifications relative to this call for applications should be sent to the above-mentioned e-mail address and undertakes to promptly notify of any variations.

Date,

Signature _____

Processing of personal data

Personal data collected are processed as described in the “Privacy policy for participants in the University's competitive selection procedures” available at: www.unibo.it/privacy