

# EURAXESS



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02/07/2018



## Senior Post-doctoral Researcher in Archaeoacoustics

This job offer has expired

### ORGANISATION/COMPANY

Universitat de Barcelona

### RESEARCH FIELD

Other

### RESEARCHER PROFILE

Leading Researcher (R4)

### APPLICATION DEADLINE

13/07/2018 00:00 - Europe/Athens

### LOCATION

Spain > Barcelona

**TYPE OF CONTRACT**

Temporary

**JOB STATUS**

Full-time

**HOURS PER WEEK**

37,5

**OFFER STARTING DATE**

01/10/2018

**EU RESEARCH FRAMEWORK PROGRAMME**

H2020 / ERC

**REFERENCE NUMBER**

787842

**IS THE JOB RELATED TO STAFF POSITION WITHIN A RESEARCH INFRASTRUCTURE?**

Yes

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Acronym: ARTSOUNDSCAPES

FBG Project number: 787842

Project title; The sound of special places: exploring rock art soundscapes and the sacred

IP: Dra. Margarita Diaz-Andreu García

Department: Història i Arqueologia

**PROJECT DESCRIPTION**

The ARTSOUNDSCAPES project deals with **sound, rock art and sacred landscapes** among past hunter-gatherers and early agricultural societies around the world. The potential of sound to stimulate powerful emotions makes it a common medium for conferring places with extraordinary agency. Ethnographic and ethnohistorical sources indicate that these sites are often endowed with a sacred significance and, in many cases, they also receive special treatment, including the production of rock paintings. Despite the aural experience being an integral component of the human condition and a key element in ritual, archaeology has largely been unable to study it systematically. Rock art landscapes are no exception and, although some studies have been made, they have largely been reproached for their lack of scientific rigour and subjectivity. ARTSOUNDSCAPES will fully address this weakness by

investigating the perception of sound in rock art landscapes from an **interdisciplinary approach** reflected in its five Research Lines:

- Research line 1: Characterising the acoustic properties of rock art landscapes. Aim: to undertake a comprehensive analysis of the acoustic properties of a series of rock art landscapes around the world in order to acquire scientifically accurate data for surveying relationships between sonic effects, soundscape perception and the positioning of rock art.
- Research line 2: The psychoacoustics of rock art landscapes. Aim: to examine the sensations evoked in people by sounds and how they relate to auditory interpretations and physically measurable quantities; to explore auditory perceptions such as echolocation and the augmented audibility and intelligibility of distant sounds.
- Research line 3: Neuropsychology and emotion in rock art landscapes. Aim: to test whether stimulation of the brain with the sound recorded in RL1 can induce patterns of brain activity related to particular emotions such as those provoked by altered or mystical states
- Research line 4: Ethnographic and ethnohistorical sources. Aim: to critically revise ethnohistorical and ethnographic records related to music and sound among hunter-gatherers and early agriculturalists and to look at ethnographic variation in sacred beliefs associated to sound in these same societies.
- Research line 5: Phenomenological analysis of sacred emotion and rock art soundscapes. Aim: to combine the results obtained in the previous lines and attempt a phenomenological understanding of sacred soundscapes among late hunter-gatherers and early agriculturalists around the world.

#### **KEY RESPONSABILITIES WILL INCLUDE:**

- Work closely with the project PI and assist in the management of the multidisciplinary team of researchers;
- Lead Research Line 1 together with the PI by providing guidance, training, and support on acoustic measurements methods, techniques and devices proposed by the project, with a focus on Spatial audio recordings;
- Closely collaborate with PI in coordinating fluent interaction between RL1 and RL 2 and 3 (psychoacoustics and neuropsychology) throughout the project

- Assist other project members in literature review of ethnohistorical data, musicology and ethnographical records related to the role of sound in sacred landscapes among premodern societies;
- Closely collaborate with PI in ensuring correct dissemination in conference and publications of the results of the project both in academic and non-academic media.
- Unless in fieldwork, attendance to meetings, conferences or travelling for archival and literature research allowed by the PI a key responsibility of the researcher will be to work in the Department of History and Archaeology, University of Barcelona.
- Coordinate with the PI in ensuring that all targets related to academic dissemination, including publications in international peer-reviewed journals and conference participation as planned in the project application are fulfilled
- Coordinate with the PI in ensuring that all targets related to non-academic dissemination for wider audiences as planned in the project application are fulfilled.

## **FUNCTIONS AND/OR TASKS OF THE POSITION**

### *Related to the whole project*

- Coordinate with the PI in planning monthly routines for all team members necessary to meet the project timetable;

### *Related to Research Line 1*

- Together with the PI lead fieldwork campaigns throughout the duration of the project to gather acoustic data in the archaeological areas identified by the project;
  - Ensure that the appropriate methods, procedures and protocols are followed in all research lines and communicate to the PI any identified needs the project may have;
  - Collaborate with external contractors to arrange and test the acoustic devices:
- Coordinate with the PI in planning all post-processing analysis of acoustic data;

#### *Related to Research Lines 2 and 3*

- Provide the necessary data for tests to be undertaken in RL2 and RL3 at the start of year 2
- Assist the PI in ensuring that there is continuous, fluid and effective communication between RL2 and RL3 with the other project research lines aiming, among others, at producing joined academic work.

#### *Related to Research Line 4*

- Coordinate with the PI in the management of this research line.

#### *Outcomes*

- Ensure that all reports for ERC are agreed with the PI and completed at least two weeks before the deadline;
- Actively work in academic dissemination by leading the writing of at least two articles per year in international peer-reviewed journals
- Actively participate in conferences agreed by the PI representing the ARTSOUNDSCAPES project with a paper at least twice a year
- Actively participate in non-academic dissemination for wider audiences agreed by the PI.

#### *Others*

- Perform other related duties as required.

Gross salary per year: Negotiable between 40.000 and 55.000€

Required documents: Application letter, Curriculum vitae, 5 International publications, 2 academic reference letters.

email; [m.diaz-andreu@ub.edu](mailto:m.diaz-andreu@ub.edu)

Name: Prof. Dr. Margarita Díaz-Andreu

email subject: Application for a Senior Post-Doctoral Research Fellowship.

ADDITIONAL INFORMATION



REQUIREMENTS



### WORK LOCATION(S)

1 position(s) available at

Departament de Història i Arqueologia

Spain

Barcelona

Barcelona

08001

C/Montalegre 6

## Open, Transparent, Merit based Recruitment procedures of Researchers (OTM-R)

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