Position Offered: UNIVERSITY GRADUATE

Project: *Development and application of virtual environments in sensory and consumer analysis*

Technological and scientific fields: Virtual and Augmented Reality, Biometrics, Sensory and Consumer Science

Location: Madrid, Madrid, ICTAN, https://www.ictan.csic.es

Research Group/PI: DIGISEN, Gonzalo Delgado Pando, https://www.ictan.csic.es/grupos-de-investigacion/tecnologias-digitales-analisis-sensorial-carne-y-derivados-digisen

PROJECT SUMMARY

When consuming or choosing a food product, we follow a multifactorial process of great complexity. This sensory perception is affected not only by the informational context but also by the external environment. Thanks to the recent development and use of digital technologies in sensory science, exploring the connections between participants' subconscious reactions and their hedonic responses in immersive environments is becoming easier. Through this project, virtual environments will be created using extended realities (XR) to recreate contexts closer to consumer reality and/or facilitate controlled sensory evaluation. Biometric devices (such as eye-tracking, galvanic skin response, etc.) will also be used to capture subconscious responses during the analysis. The main objective is to improve the understanding of sensory perception in food choice and consumption.

PROFESSIONAL PROFILE

Minimum requirements:

Hold or be in the process of obtaining a Bachelor's degree, Engineering degree, or equivalent, or a degree related to Computer Engineering. Knowledge of XR and related software. B2 level English and Spanish proficiency.

Merits to be considered:

Experience with extended reality (XR): graphics engine software (e.g.:Unity) and/or 3D modeling (e.g.: Autodesk, 3ds Max, Blender). Programming languages C++/ C# / Python / R. Experience/knowledge in data analysis

WHAT IS OFFERED

Participation in an innovative project that aids in your training to enhance your technical-scientific career and employability. You will develop virtual environments applied to consumers, analyze biometric data, participate in scientific publications, and attend conferences. Training totaling 240 ECTS is offered: including a Master's in Data Science, a training stay abroad (United Kingdom), and courses on various topics. You will be part of a multidisciplinary, ambitious, and active team located in the vibrant campus of Moncloa close to the centre of Madrid.

Contract conditions:

Indefinite contract for a University Graduate associated with the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (37.000 € - 41.000 €).

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

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