UNIVERSIDAD DE GRANADA

Centro de Investigación
Mente, Cerebro y
Comportamiento

Job Offer: Programmer & Behavioral Data Analyst

08/01/2025



As part of the strategic plan linked to the María de Maeztu Seal of Excellence award, CIMCYC is recruiting a staff scientist to support behavioral task programming and advanced data analyses of research projects carried out at the center.

GENERAL INFORMATION

- **Position:** Programmer & Behavioral Data Analyst, María de Maeztu Unit of Excellence - CIMCYC
- **Location:** Granada, Spain
- **Type of contract/Duration:** Four years (with extension depending on funding availability)
- **Job Status:** Full-time
- **Expected starting date:** March, 2025 (flexible)

Mind, Brain and Behavior Research Center

The Mind, Brain and Behavior Research Center (CIMCYC, https://cimcyc.ugr.es/en) of the University of Granada in Spain brings together world-class research in several key areas of Psychology and Neuroscience with the mission to produce excellent international science, train excellent professionals and go to great lengths to impact society and make the world a better place for its citizens. CIMCYC researchers study the human mind and brain, its individual variability, development and disease, its interrelation with the surrounding social environment and multitude of applications of this knowledge. Our greatest fortitude lies in the unique and privileged combination of state-of-the-art infrastructures at the service of these core multidisciplinary psychological research topics, with outstanding researchers that teach at excellent international postgraduate training programs and also organize and participate in a myriad of community insertion activities that make our research matter to society.

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The CIMCYC is housed in a 4-floor building that offers state-of-the-art shared research equipment including a 3T Magnetic Resonance Imaging Prisma scanner (fMRI, fully research-devoted at the basement of the building), a robotized Transcranial Magnetic Stimulator (TMS) with neuronavigation, transcranial electric stimulators (tES), EyeLink eyetrackers, High-density Electroencephalography (EEG), iMotions biometry, Tobii Pro Glasses, a cardiopulmonary analyzer, a Jatos server for online experiments, several high-performance computers for in-site and remote data analyses (see https://cimcyc.ugr.es/en/research/equipment) and a Sona platform for participant recruitment. In addition, each lab has further specialized equipment for the use of its researchers.

Recognizing the international leadership and capabilities of CIMCYC, the Spanish Ministry of Science, Innovation and Universities has awarded the center with a María de Maeztu Unit of Excellence distinction (https://www.aei.gob.es/en/awarded-grants/centers-units-excellence).

Personnel selection at CIMCYC follows Open, Transparent and Merit-based Recruitment (OTM-R) principles, with commitment to gender equality and respect for diversity.

Job description:

The hired person will be an expert in advanced behavioral data analyses and implementation and programming of behavioral tasks for on-line and lab data collection, and will have demonstrated experience in Open Science protocols in the field. S/he will provide support on these domains by working closely with CIMCYC researchers, from PIs to young trainees.

Duties and responsibilities:

- Development and implementation of strategies to maintain a culture of Open Science in behavioral research at the CIMCYC.
- Assistance in developing appropriate and efficient experimental designs and optimal acquisition protocols of all kinds of behavioral data.
- Development and maintenance of behavioral data infrastructures and code repositories.
- Support in the design and evaluation of data (pre)processing pipelines and statistical analyses, ensuring reproducibility and accuracy.
- Support to CIMCYC researchers in the implementation of advanced statistical analyses of behavioral and survey data.
- Knowledge transfer: support in the organization of training workshops focused on behavioral task programming and of data analysis of different kinds.

SELECTION CRITERIA

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Required:

- Bachelor's/Degree/Master's degree in fields related to behavioral data analysis.
- High motivation to support Open Science in research.
- Extensive experience with (some of the) softwares employed for behavioral task programming and data analyses, such as Psychtoolbox, PsychoPy, Presentation, Open Sesame, Qualtrics and/or EPrime, R.
- Proficiency in relevant programming languages (e.g., Matlab, Python).
- Proficiency in advanced psychological data analyses (e.g. Meta-analysis, Mixed-models analyses, Multilevel, correlational class or profile analyses, etc.).
- Oral and written fluency in English. Fluency in Spanish is not required, although willingness to learn is a plus.

Desirable experience and training:

- PhD degree in contents closely related to human behavior and/or in areas related to CIMCYC research.
- Experience with Open Science tools in behavioral data.
- Experience with version control systems (Git/GitHub).
- Experience with research employing Virtual Reality.

Desirable skills:

- Meticulous attention to detail and excellent organizational skills.
- Ability to work on multiple projects simultaneously, set priorities, and meet deadlines.
- Strong interpersonal skills, ability to work both independently and as part of different teams.
- Ability to instruct and support others in task programming and behavioral analyses.

- Willingness to undertake further training and autonomously learn new pipelines, where appropriate.

SALARY

Monthly gross salary € 2700

APPLICATION PROCESS

Timetable:

- The administrative reception of documentation will open the 15th of January 2025.
- The application deadline is 28th of January 2025.
- Interviews with candidates are expected to take place in February-March 2025.

Submission of the application and documentation:

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To submit your application (from the 15th of January 2025), please follow https://investigacion.ugr.es/recursos-humanos/personal/solicitud, including the following documentation:

- Degree completion (undergraduate, master, PhD) and English language competence (C1 or equivalent) certificates (if available).
- A Curriculum Vitae.
- A statement outlining interests and motivation to apply for the position.
- Two letters of recommendation.

Non-Spanish applicants who do not have a digital signature (required to follow the administrative application procedure above) should please contact ruthmaldonado@ugr.es in advance for an alternative submission procedure.

Contact details for inquiries about the job:

Research: Isabel Benítez (@email)

Admin: Ruth Maldonado (@email)

OTHER RELEVANT INFORMATION

- The working languages at CIMCYC are Spanish and English.
- The (online) interview will be conducted in Spanish and English (if applicable).

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