

Postdoctoral Scholar  
University of California, San Diego

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Posted Jul. 19, 2022, set to expire Nov. 18, 2022

<b>Job Title</b>	Postdoctoral Scholar
<b>Department</b>	Institute for Neural Computation
<b>Institution</b>	University of California, San Diego San Diego, California
<b>Date Posted</b>	Jul. 19, 2022
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Statistics & Actuarial Science Natural Sciences Mathematics/Applied Mathematics Computer/Information Sciences Biomedical Sciences Sciences - General
<b>Job Website</b>	<a href="https://apol-recruit.ucsd.edu/JPF03263/apply">https://apol-recruit.ucsd.edu/JPF03263/apply</a>
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<b>Apply By Email</b>	
<b>Job Description</b>	

Drs. Scott Makeig and Arnaud Delorme of the Swartz Center for Computational Neuroscience (SCCN), at UC San Diego, are seeking a postdoctoral researcher to work on a potentially three-year compute-intensive neuroimaging project between SCCN ([sccn.ucsd.edu](http://sccn.ucsd.edu)) and the Child-Mind Institute of New York ([childmind.org](http://childmind.org)). This Healthy Brain Network (HBN) project ([healthybrainnetwork.org](http://healthybrainnetwork.org)) is collecting MR, eye tracking, and high-density EEG data from up to 10,000 children as they perform cognitive tasks and watch movie/animations. This collaboration, with Dr. Michael Milham (CMI/HBN) and

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colleagues, seeks to (1) develop a library of terms for the Hierarchical Event Descriptor system (HED-3G) ([hedtags.org](http://hedtags.org)) and open-source tools for annotating events in movies to operate both standalone and in connection with our EEGLAB signal processing environment ([sccn.ucsd.edu/eeglab](http://sccn.ucsd.edu/eeglab)) running on Matlab. (2) After annotating the HBN short films, the HBM data will be exported to OpenNeuro ([openneuro.org](http://openneuro.org)) under BIDS standards ([bids.neuroimaging.io](http://bids.neuroimaging.io)), and will be made available via the forthcoming NEMAR data portal ([nemar.org](http://nemar.org)) for processing on the XSEDE high-performance computer network via the Neuroscience Gateway (NSG, [nsgportal.org](http://nsgportal.org)). The HBN M/EEG and behavioral/eye tracking data will be analyzed at the source and source network levels (Akalin Acar & Makeig, 2021) using advanced applications of Independent Component Analysis (Makeig et al., 1996; Delorme et al., 2012), Bayesian source and network clustering using SCALE optimized forward head models (Akalin Acar et al., 2016, 2020). Tools and pipelines developed in the project will be made available in EEGLAB and through NSG. Our neuroscientific goal is to model the development of cortical EEG source dynamics and associated eye gaze patterns during viewing of 'moving pictures', and to model and explore individual differences in these processes.

APPLICATION REQUIREMENTS Document requirements Curriculum Vitae - Your most recently updated C.V.

Cover Letter Statement of Research Statement of Teaching (Optional) Statement of Contributions to Diversity - Applicants should summarize their past or potential contributions to diversity. See our Faculty Equity site for more information. Misc / Additional (Optional)

Reference requirements 3 required (contact information only)

### **EEO/AA Policy**

CAMPUS INFORMATION The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, covered veteran status, or other protected categories covered by the UC nondiscrimination policy.

As a condition of employment, you will be required to comply with the University of California SARS-CoV-2 (COVID-19) Vaccination Program Policy. All Covered Individuals under the policy must provide proof of Full Vaccination or, if applicable, submit a request for Exception (based on Medical Exemption, Disability, and/or Religious Objection) or Deferral (based on pregnancy) no later than the applicable deadline. Please refer to Appendix F, Section II.C. of the policy for the deadlines applicable to new University of California employees. (Capitalized terms in this paragraph are defined in the policy.)

Federal, state, or local public health directives may impose additional requirements.

The University of California prohibits smoking and tobacco use at all University controlled properties. The UC San Diego Annual Security & Fire Safety Report is available online at:

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<https://www.police.ucsd.edu/docs/annualclery.pdf>. This report provides crime and fire statistics, as well as institutional policy statement & procedures. Contact the UC San Diego Police Department at (858) 534-4361 if you want to obtain paper copies of this report.

**Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact**

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