

Postdoc positions in cognitive neuroscience / multi-dimensional data analysis

Two postdoc positions are available at Deutsches Resilienz Zentrum (DRZ) at Johannes Gutenberg University Mainz (near Frankfurt, Germany), in the research group of Prof. Raffael Kalisch. The DRZ is an interdisciplinary institute assembling stress resilience researchers from the fields of molecular and cellular neuroscience, genetics, physiology, systems and cognitive neuroscience, psychology, psychiatry, and social science (<http://www.german-resilience-center.uni-mainz.de>). The DRZ heads the Collaborative Research Center CRC1193 "Neurobiology of Resilience" (Mainz/Frankfurt), funded by the German Research Foundation (www.crc1193.de), the International Resilience Alliance "intresa" (www.intresa.org), and the new EU Horizon project "DynaMORE" (Dynamic MOdelling of REsilience). The DRZ and its partners also run two unique longitudinal cohort studies (Mainz Resilience Project, MARP; Longitudinal Resilience Assessment, LORA). The DRZ actively promotes collaboration and networking among resilience researchers world-wide and is strongly engaged in training and dissemination. For key programmatic publications, see Kalisch et al., Behav Brain Sci 2015 and Nat Hum Behav 2017; Chmitorz et al., Clin Psychol Rev 2017. The DRZ is situated in the rich collaborative neuroscience landscape of the Rhine-Main area (www.rmn2.de).

1. Postdoc in the analysis of multi-dimensional longitudinal cohort data, focus neuroimaging (5 years, start 04/18)

The position is part of the EU Horizon project DynaMORE, led by R. Kalisch and conducted in collaboration with the universities of Berlin, Freiburg, Leuven, Nijmegen, Tel Aviv, Warsaw and Zurich. The postdoc will be in a central position to analyze several multi-dimensional and temporally highly resolved longitudinal data sets, both existing and planned, on mental health reactions to adversity. Included data types are behavior, imaging, physiology, (epi)genetics, microbiome, personality, life history, life style, sociodemographics. He/she will work in close exchange with leading biostatisticians and computational modellers as well as experts in the fields of cognitive affective neuroscience, genetics, clinical psychology, ambulatory methods and engineering. The overarching goal is to advance and formalize resilience theory. Hence, the candidate should have a strong background in cognitive affective neuroscience and/or health psychology as well as good analytic skills. See also www.intresa.org/jobs.

2. Postdoc in translational extinction research (2 years, perspective for 4 more years, start 07/18)

The position is part of CRC1193, subproject C01. The project investigates the mechanisms of human fear extinction memory formation, a key resilience mechanism, using advanced imaging techniques in combination with pharmacology and psychophysiology. The project is conducted in close collaboration with Prof. Albrecht Stroh (9.4 T animal MRI, calcium imaging, optogenetics). In case of the successful acquisition of a second CRC funding period in 2020, the position can be extended to 4 more years. The candidate should have a strong background in cognitive affective neuroscience and/or neurophysiology, ideally with experience in emotional learning and memory.

The DRZ and its partner institutions in the Rhine-Main area offer a highly attractive training and collaboration environment, mentoring and career development programs, an extended network of national and international partners, and a vibrant PhD and postdoc community.

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