

**Nazwa jednostki:** Uniwersytet Jagielloński, Wydział Filozoficzny, Instytut Psychologii – Kraków

**Nazwa stanowiska:** PhD student co-investigator

**Wymagania:**

- MSc degree in appropriate discipline: humanities/psychology or biological/medicinal sciences (or other appropriate); PhD student status at beginning or end of time of the project realisation
- the high competitions in field of the neuropsychology, neuropsychiatric diseases, e.g. schizophrenia and neuroimaging; good knowledge about brain connectivity and brain network processing including the field of neuropsychology of schizophrenia
- good computational and programming skills (Matlab, Python, SPM, FSL, SPSS/Statistica)
- earlier experience in EEG and fMRI methods and data analysis
- ability to work with patients and exhibit good level of social and psychological competences
- good written and spoken English
- disposability and self-organising competences

**Opis zadań:**

This project's objective is to identify the neural mechanism behind the deficit of metaphor comprehension in schizophrenia. In order to achieve this goal we planned complex network analysis using state-of-the-art neuroimaging methods including functional, structural and connectivity methods.

In order to test hypotheses and answering the question about causes of this deficit, we plan the present study to include:

- functional Magnetic Resonance Imaging assessments including BOLD signal analysis in order to analyze functional abnormalities in activation of structures related to this deficit.
- the structural connectivity analysis with use of Diffusion Tensor Imaging method in order to analyze the volume of axonal connections between regions engaged in metaphor processing
- the effective connectivity analysis which reflects the strength and direction of propagation of activation within neuronal network using information flow analysis of the EEG recordings (Directed Transfer Function).

We looking for two PhD student co-investigators which proved his appropriate competence and involvement in current project for:

- experimental design of experimental procedures and pilotage of the stimuli used in the research
- conducting of two experiments (EEG and MRI) with healthy controls and schizophrenia outpatients

- statistical analysis of behavioral and neuroimage data with special focus of: 1 PhD student) EEG assessment including information flow within investigated neural network (DTF analysis); 2 PhD student) MRI assessment including fMRI BOLD signal analysis and interpretation, analysis of the connections within investigated neural network (DTI)
- co-writing of articles
- presentation of the projects results on scientific meetings.

**Typ konkursu NCN:** OPUS – HS

**Termin składania ofert:** 1 luty 2018, 23:59

**Forma składania ofert:** email

**Warunki zatrudnienia:** For two persons will be offered a scholarship position for PhD student type, valid for the 24 months of project realization (2018-2020), according to the wages and regulations stipulated in the agreement with the National Science Centre.

**Duration:** 24 months (01.04.2018 – 31.03.2019)

**Salary:** scholarship - 3000 PLN/month

**Dodatkowe informacje:**

Please send your applications by the email. Your application should include:

1. motivation letter;
2. scientific CV including your personal data, education, research experience, main achievements, list of publications;
3. scan of the MSc diploma
4. contact details for two referees/promoters;
5. statement about obtaining PhD student status (or confirmation for the application during the project realisation period);

Before you apply please read the wages and regulations stipulated by the National Science Centre for scholarship and OPUS12 competition: [uchwała Rady NCN nr 50/2013 z dnia 3 czerwca 2013 r.;](https://www.ncn.gov.pl/ogloszenia/konkursy/opus12)  
<https://www.ncn.gov.pl/ogloszenia/konkursy/opus12>

Scientific stipends were granted in the open competition for candidates. We will contact only selected candidates for an interview. In case no suitable candidates are found, we will continue collecting applications.

Please include in your application the following statement: “In accordance with the personal data protection act from the 29th of August 1997, I hereby agree to process and to store my personal data by the Institution for recruitment purposes”.

**Contact:**

Project principal investigator

dr n. med. Przemysław Adamczyk

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