



**Call for undergraduate/graduate/PhD students
of mathematics/computer science and related disciplines
for a position of the scholarship holder in the ExplainMe project implemented as a part of
the FIRST TEAM action carried out by the Foundation for Polish Science,
financed by the “European Funds for a Smart Economy” Program (FENG)**

Project description:

The project "Explainable Artificial Intelligence for Monitoring Acoustic Features extracted from Speech" with the acronym ExplainMe is implemented in the framework of the FIRST TEAM call funded by the European Regional Development Fund from the European Funds for Smart Economy 2021-2027 programme (hereinafter: FENG).

The aim of the project is to develop algorithms and tools for the analysis and explanation of complex medical data, in particular in the form of multidimensional time series constituting a record of patients' speech. The originator and principal investigator of the project is Professor Katarzyna Kaczmarek-Majer, PhD, DSc. Thanks to the funds obtained for the project and based on her experience in the field of medical applications of computational intelligence, she will create a research team that will develop solutions aiming to support psychiatrists in diagnostics of affective disorders. Clinical practice and the latest research confirm that the way of speaking can be a signal in the field of mental disorders or phase changes in affective states. However, there is a need for easy-to-use and reliable tools that, through the use of modern technologies and artificial intelligence, can help explain, for example, why an observed time series indicates a change in a patient's condition. The project will be implemented in close cooperation with a business partner, Britenet Med sp. z o.o., and numerous experts from Poland and abroad, including the Czech Republic, Finland, Spain, Germany and Italy.

The scholarship winner will have a unique opportunity to develop explainable artificial intelligence algorithms and their application in medicine in cooperation with industrial partners and scientists from leading research centers in Poland and abroad. The ExplainMe project provides funding for research and enables researchers to participate in leading international scientific conferences.

Duties of the scholarship holder within the ExplainMe project:

- Participation in the development, programming and analytical tasks leading to the creation of modules of the ExplainMe system for data collection, pre-processing modules and visualization.
- Participation in tasks related to the acquisition and processing of benchmark and synthetic data in order to assess the reliability of the developed algorithms.
- Participation in the data preparation in order to achieve the assumed results of the ExplainMe project.
- Preparation of project reports.
- Cooperation with team members and research partners, including psychiatrists and physicians.
- Participation in the analysis and evaluation of the obtained results in comparison with the state of the art approaches.
- Participation in the preparation of scientific publications in peer-reviewed journals.
Participation in national and international conferences and dissemination of project results.

Requirements:

- Status of undergraduate/graduate/PhD student.
- Knowledge of data analysis and programming basics.
- Good command of English.
- Some knowledge/experience related to:
 - machine learning,
 - fuzzy logicwill be an asset.

We expect:

- Compliance with high standards of work.
- Commitment to performing duties.
- Creativity in project tasks accomplishment.

while

- detailed info on the regulations for awarding scholarships and obligations of scholarship holders in the FENG action may be found here: https://www.fnp.org.pl/assets/annex-3-to-the-Agreement_Regulations-for-awarding-scholarships-1.pdf; in particular, it is forbidden for the scholarship holder to be receiving another scientific scholarship within the framework of another programme implemented by the Foundation for Polish Science, regardless of the source of their funding, with the exception of the Start programme.

We offer:

- **scientific scholarship** for the period of 12 months with possible extension, amounting to 4000,00 – 5000,00 PLN per month. The scholarship will be paid based on the scholarship agreement concluded between the Scholarship Holder and the Systems Research Institute, Polish Academy of Sciences.
- an opportunity for personal development and work in a dynamic research team.

Documents to be submitted by a candidate:

- A motivation letter (up to 1 page)
- CV (up to 2 pages) including contact info (phone number, e-mail address)
- Document confirming the undergraduate/graduate/PhD student status of the candidate
- A short description of the research interests of the candidate (up to 1 page)
- A signed statement with the following content:

“I hereby agree to have my personal data processed by the Systems Research Institute of the Polish Academy of Sciences, Newelska 6, 01-447 Warszawa, Poland, for purposes of the respective recruitment process. The personal data will be processed for the purpose of the current recruitment procedure, on the basis of the consent given (Article 6(1)(a) and 6(1)(c) of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation – GDPR, OJ UE.L.2016.119.1 of May 4, 2016). Besides, I declare having taken knowledge of the ‘Information clause for the recruitment process’ concerning personal data processing, including information on the purpose and ways of processing the respective personal data, as well as the right to access and modify the data.”

The deadline and application submission mode:

Candidates for scholarship are requested to submit the application by **September 27, 2024**, electronically to the e-mail address of the Principal Investigator: k.kaczmarek@ibspan.waw.pl with a note in the subject line: „scholarship **ExplainMe**”.

If you have any questions, please contact us at this e-mail address: k.kaczmarek@ibspan.waw.pl

Please be informed that a committee will be appointed to assess the candidatures submitted, which, after the initial assessment of applications, will invite selected candidates for an interview. Representatives of the IP FENG – Foundation for Polish Science will participate in the interviews, too.

Information clause

- 1) the controller of the personal data processed in the course of the scholarship competition is the Systems Research Institute of the Polish Academy of Sciences, with its registered office at 6 Newelska Street, 01-447 Warsaw, Poland,
- 2) the controller may be directly contacted using the e-mail address dyrekcja@ibspan.waw.pl or by sending the regular mail to the following address: ul. Newelska 6, 01-447 Warszawa; the controller has appointed the data protection officer who can be contacted using the e-mail address iod@ibspan.waw.pl,
- 3) personal data will be processed for the purposes of the scholarship competition, on the basis of the Article 6(1)(a) and 6(1)(c) of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation - GDPR),
- 4) the data subject has the right to withdraw consent at any time, without affecting the lawfulness of processing based on consent before its withdrawal,
- 5) data collected in the course of scholarship competition processes shall be stored for a period not longer than one year,
- 6) the data subject has the right to access their personal data, and to request that they be rectified or erased; if erasure of personal data is requested, this shall be equivocal to resignation from participation in the scholarship competition process carried out by the Systems Research Institute of the Polish Academy of Sciences in Warsaw.
- 7) the data subject has the right to file a complaint to the President of the Personal Data Protection Office (PUODO) with regard to unlawful processing of personal data; PUODO will be the authority competent to review the complaint, with the proviso that the right to complain applies solely to the processing personal data and not to the course of the scholarship competition process.