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The Rector of the Poznań University of Economics and Business announces an open competition for an NCN research scholarship for a doctoral student to carry out tasks from the research project titled “Botonomics: the influence of machines on economic behavior”, financed by the National Science Centre (Poland) under the contract UMO-2021/42/E/HS4/00289 as part of the NCN SONATA BIS 11 funding scheme.

Name of the unit: Poznań University of Economics and Business – Poznań, Poland

Position name: PhD scholarship

Eligibility requirements (must-have)

- A Master’s degree in a relevant discipline (e.g., economics, finance, psychology, computer science). Candidates from STEM disciplines and linguistics with exceptional qualifications will also be considered.
- Enrolled as a doctoral student at a Polish or foreign university.
- A passion for conducting interdisciplinary research, combining at least two of the following: economics/finance, psychology, computer science.
- Strong research interest in large language models/generative AI.
- Experience in conducting online experiments (e.g., using Qualtrics, LimeSurvey and crowdsourcing platforms such as Prolific) or laboratory experiments (e.g., using oTree); experience in conducting both types of experiments is highly desirable.
- Very good knowledge of statistics and proficiency in the use of statistical packages.
- Excellent spoken and written English skills (C1 level or higher, certification preferred).
- High motivation to create publications intended for Q1 JCR journals and the drive to disseminate the projects’ findings at different outlets (e.g, workshops and conferences).
- Creativity, conscientiousness, reliability, and a problem-solving attitude.

Preferred qualifications (nice-to-have)

- At least one publication or working paper on large language models/generative AI.
- Proficiency in R and Python.
- Experience in analyzing behavioral data involving reaction times, text analysis, or mouse-tracking.



Description of tasks

Botonomics explores how large language models (e.g., GPT, LLaMA, Gemini) influence economic and human behavior. The project employs methods from behavioral economics and finance, such as economic games (e.g., Prisoner's Dilemma, Ultimatum Game) and tasks analyzing dishonest or risk-taking behavior. Research involves both online experiments (e.g., Prolific) and laboratory experiments. For more insight into the project's scope, see papers authored by the Principal Investigator on arXiv (<https://arxiv.org/search/cs?searchtype=author&query=Niszczoata,+P>) and a summary of the project available at the National Science Centre's website (https://projekty.ncn.gov.pl/en/index.php?projekt_id=528961).

We are looking for a PhD student who will be involved in co-designing online or laboratory experiments, conducting online or laboratory experiments, analyzing statistical data, and co-writing papers. You will have the ability to disseminate findings on work carried out within the project at scientific conferences or workshops.

Type of project: NCN SONATA BIS

Deadline for offers: 15th of February 2025

Date of competition results: No later than the 7th of March, 2025

Form of submitting offers: e-mail

Conditions of employment

- PhD stipend (scholarship) amount: 5000 PLN (net) per month.
- Employment period: 12 months (with the possibility of extension to 24 months).
- Project title: Botonomics: the influence of intelligent machines on economic behavior.
- Principal Investigator: dr Paweł Niszczoata.
- Place of work: Poznań University of Economics and Business; for candidates with an exceptional skillset and track record, there is the possibility of remote work.
- Work on this project can be combined with doctoral studies at another university.
- Start date of work: 1st of April 2025 (negotiable).



Required documents

1. Cover letter in English addressed to the Principal Investigator justifying interest in the project.
2. CV in English containing detailed information about publications, work on research projects, and experience gained in working on projects, as well as the possession of skills relevant to the project.
3. A copy of the graduate (Master's) diploma.
4. A document confirming the status of a doctoral student.

The required documents should be submitted electronically to the e-mail address of the Principal Investigator: pawel.niszczoata@ue.poznan.pl, with "SONATA BIS 11 Scholarship" in the e-mail subject line, by the 15th of February 2025 in PDF file format.

Incomplete applications, applications that do not meet the formal requirements, and those submitted after the deadline will not be considered. We will contact selected candidates by e-mail or phone.

Recruitment is a two-stage process and includes:

1. An assessment of the candidates' documentation.
2. An interview via Microsoft Teams or an equivalent platform.

Candidates who meet the formal requirements and receive the best evaluation in the first stage will be invited to an online interview (which is planned to take place between the 17th and 26th of February 2025). Candidates will be notified about the recruitment results by e-mail or telephone. The recruitment results will also be published on the website of the Poznań University of Economics and Business no later than the 7th of March 2025.

Additional information

GDPR information clause

1. The administrator of your personal data is the Poznań University of Economics with its registered office in Poznań (61-875), al. Niepodległości 10, NIP 777-00-05-497, REGON 00000-1525.
2. The Administrator has appointed a Data Protection Inspector supervising the correctness of personal data processing, who can be contacted at the e-mail address: rodo@ue.poznan.pl; room 1422 Collegium Altum.
3. Your personal data will be processed in connection with the recruitment procedure based on: • Art. 6 section 1 letter b) GDPR - in the scope of data indicated in labor law provisions, i.e. Art. 221 of the Labor Code, • art. 6 section 1 letter a) GDPR - in the scope of additional data indicated by you in the submitted CV and other documents



consciously attached by you to the offer • Art. 6 section 1 letter c) GDPR - in the scope of data that the administrator is obliged to collect under national law

4. Your personal data will be stored only for the period necessary for the purposes of their processing, i.e. for the duration of the competition, and after its completion for 12 months.

5. Your data will not be used for automated decision-making or profiling and will not be transferred to third countries and international organizations.

6. You have the right to access your personal data, rectify it, delete it, limit processing, transfer it and raise objections.

7. In the scope of data for which consent to processing has been given, you have the right to withdraw it at any time, provided that this does not affect the legality of data processing that took place before the withdrawal.

8. You have the right to lodge a complaint with the authority supervising the protection of personal data, i.e. the President of the Personal Data Protection Office.

9. Providing your personal data to the extent resulting from Art. 221 of the Labor Code is necessary to participate in the recruitment procedure. Providing additional data by you is voluntary. Full information about personal data is available on the University's website at <https://ue.poznan.pl/en/university/privacy-policy/>