UNIWERSYTET WARSZAWSKI

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WYDZIAŁ MATEMATYKI, INFORMATYKI I MECHANIKI

COMPETITION ANNOUNCEMENT

The dean of the Faculty of Mathematics, Informatics and Mechanics, with the consent of the Rector of the University of Warsaw, announces a competition for a postdoctoral position (assistant professor) in the National Science Centre Grant OPUS entitled: High-Dimensional Data Processing using Sample Compression and Dimensionality Reduction.

The masculine personal nouns used in the advertisement apply to people of all genders.

About the programme/project/undertaking:

Title of programme/project/ undertaking	High-Dimensional Data Processing using Sample Compression and Dimensionality Reduction
Type of programme/ project/ undertaking	Opus
Funding institution	National Science Centre, Poland
Duration of programme/ project/undertaking	16.07.2024 – 15.07.2029
Head of programme/ project/undertaking	dr Kunal Dutta
Description of programme/ project/undertaking	The project aims to design algorithms needed for processing high-volume and high-dimensional data, with non-Euclidean metrics and more general dissimilarity functions, providing theoretical guarantees on their efficacy and computational complexity. We would also like to design compressed and low-dimensional representations and data structures for storing such data, with proven guarantees on their size and correctness of approximation. Another aim is to analyze existing heuristics for such processing and prove theoretical bounds on their output, or design new practical heuristics with some theoretical indications of their effectiveness, for problems where theoretical guarantees are not feasible. Finally, we would like to provide implementations and software libraries of our algorithms and sample compression schemes, whenever possible. These problems can include working with various Lp-based metrics, KL and Bregman divergences, kernel-based dissimilarity functions, VC-dimension, random projections, etc.

Position details:

Position title	postdoctoral position (assistant professor)
Organizational unit	Faculty of Mathematics, Informatics and Mechanics
Employment group	research
Position profile	R2
Academic discipline	Informatics

Number of positions	1
Form of employment and length of working time (proportionally to full-time employment)	contract of employment - full-time position
Expected date of commencement of work and employment period	• no sooner than 1 March 2027; starting date to be set between the candidate and principal investigator • the duration of employment: for 24 months with the possibility of extension
Remuneration	the offered salary is approx. 11 000 PLN gross/month pre-tax (plus a seniority allowance and additional annual salary)
Other working conditions	• workplace: Faculty of Mathematics, Informatics and Mechanics, University of Warsaw, Banacha 2, 02-097 Warsaw • the position comes with no teaching obligations and a budget for research-related travel
Basic responsibilities and obligations	• conducting research within the scope of research tasks in the project; • publishing results of research
Conditions for entering the competition	• the competition may be entered by candidates who meet the conditions set out in art. 113 of the Law on Higher Education and Science of July 20, 2018 (Journal of Laws of 2024, item 1571, as amended); • at the moment of employment, the candidate must hold a PhD degree in computer science (or equivalent qualifications obtained abroad) awarded no more than 12 years prior to employment in the project (with exemptions in accordance with the NCN regulations); • significant scientific achievements; • international experience.
In addition, we expect	that the candidate will have: • a solid background in one or more of the following fields: computational geometry, probabilistic and extremal combinatorics, randomized and approximation algorithms; • excellent publication record; • strong motivation for research work in foundations of computer science; • advanced skills in written and spoken English. If hired, we expect the University of Warsaw to be the primary workplace for the successful candidate.
Criteria for the assessment of candidates in a competition	The criteria indicated below will be taken into account considering the position and stage of professional development of the candidate: • publications – the substantive value of the publication and the reputation of the journal in which it was published. The quality of publications should be more important than their number; • international recognition and impact of scientific results; • managing of research projects or participating in research projects; • talks given at scientific conferences, with particular emphasis on invited talks; • participation in scientific committees of conferences; • research internships in other research centres; • scientific cooperation with scientists from other research centres; • organizing and managing research groups; • popularisation of the results and other forms of dissemination.
Position not related to activities covered by the protection of minors.	

Competition rules:

Announcement reference number	SOB/D110/2026/01/66-7294
Keywords	Informatics
Deadline for submitting applications	27 December 2026
Method of submitting an application	• to apply for the position, candidate should send an email entitled [POSTDOC – OPUS] and attach the required documents in pdf format; • applications should be sent to the following address: K.Dutta@mimuw.edu.pl
Required documents	• signed information on personal data processing (attached); • signed declaration of the candidate (attached); • copy of doctoral diploma or information on when the degree is expected to be awarded; • Curriculum Vitae that: 1. presents an overview of the background and scientific achievements of the candidate; 2. lists all the candidate's research works (including not yet published manuscripts) and indicates three most important of them; 3. gives a list of two experienced researchers that may serve as references for the candidate. Please ensure that your application is complete and submitted by the deadline indicated!
The competition is the first stage of the recruitment process, please read the Policy of Open, Transparent and Merit-Based Recruitment at the University of Warsaw *link*	
Stages of the competition	The competition consists of the following stages: • Stage I - formal evaluation of documents, • Stage II - substantive evaluation on the basis of submitted documents, • Stage III - interview with selected candidates: presentation of previous achievements. • Stage IV - final evaluation of competence, experience and scientific achievements, • Stage V - adjudication of the competition and announcement of results.
Anticipated date and method of notification of the competition outcomes	• 18 January 2027 • the results will be communicated to the candidates electronically by the principal investigator
Contact for any questions relating to the competition	• K.Dutta@mimuw.edu.pl • always add the reference number; • accessibility needs should be indicated in CV as: *Other relevant information from a candidate*

Employing faculty/unit:

Research profile of faculty/unit	https://www.mimuw.edu.pl/en
Teaching profile of faculty/unit	n/a
Other information	The competition committee consists of: 1. dr Kunal Dutta, Chair of the Committee 2. dr hab. Paweł Dłotko 3. dr Tomáš Masařyk 4. dr hab. Marcin Mucha, prof. ucz. 5. dr hab. Anna Zych-Pawlewicz

The University of Warsaw has implemented the procedure for whistleblowers reporting cases of law violation and for undertaking follow-up actions. For **more information** about this topic and the processing of candidates' personal data please follow the *link*

The University of Warsaw is a winner of the HR Excellence in Research award granted by the European Commission to institutions adhering to the European Charter for Researchers.



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Declaration of the candidate

Required declaration

In connection with art. 113 of the Act of the Law on Higher Education and Science of July 20, 2018 (Journal of Laws of 2024, item 1571 as amended), I declare that:

1) I have full legal capacity,
2) I enjoy full public rights,
3) I have not been expelled from work at the university with a ban on working at universities for a period of 6 months to 5 years,
4) I have not been deprived of the right to practice as an academic teacher for a period of 10 years,

I have not been convicted by a final judgment for an intentional crime or an intentional fiscal crime.

……., …2026 r.

Place and date

……

Signature of the candidate

……..……..
given and family name

Information on personal data processing

Controller
Controller of your personal data processed in connection with the recruitment process is the University of Warsaw, ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa, as the Employer.

Contact with the controller:

- by traditional mail at: University of Warsaw, ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa (name the organizational unit to which your letter is addressed);
- by phone: 22 55 20 355.

Data Protection Officer (DPO)
Controller has designated Data Protection Officer whom you may contact via email at iod@adm.uw.edu.pl. You may contact the DPO in all matters relating to your personal data processing by the University of Warsaw and the exercise of rights in relation to the processing of personal data.

The DPO, however, does not proceed other matters, like handling recruitment procedures, collecting recruitment documents, providing information on current recruitment process.

Purpose and legal grounds of data processing
Personal data of candidates for employment shall be processed for recruitment purposes only.

Your personal data shall be processed in the scope as indicated by employment law[1] *(given name (names) and family name, date of birth, contact information as provided, education, professional qualifications, previous employment)* for the purposes of this recruitment process[2], whereas other data[3] shall be processed based on your consent which may take the following wording:

I agree to the processing of personal data provided in CV and other submitted documents by the University of Warsaw for realising my recruitment process.

If your documents include data as mentioned in Art. 9 section 1 of the GDPR (special categories of personal data), processing shall be possible upon your consent to processing such data[4] which may take the following wording:

I agree to the processing of special categories of personal data, as mentioned in Art. 9 section 1 of the GDPR, provided in CV and other submitted documents) by the University of Warsaw for realising my recruitment process.

The University of Warsaw shall be also processing your personal data in future recruitment processes upon your consent[5] which may take the following wording:

I consent to processing of my personal data for the purposes of any future recruitment processes at the University of Warsaw for the period of the next nine months.

[1] Art. 22[1] of the law of June 26, 1974 Labour Code (i.e. Journal of Laws 2019 item 1040 with subsequent changes);

[2] Art. 6 section 1 letter b of the Regulation of the European Parliament and the Council (EU) 2016/679 of April 27, 2016 on protection of individual persons with regard to the personal data processing and on the free flow of such data, and also repealing Directive 95/46/EC (general regulation on data protection) (Official Journal EU L 119 of 04.05.2016, page 1, with subsequent changes) (hereinafter as the GDPR);

[3] Art. 6 section 1 letter a of the GDPR;

[4] Art. 9 section 2 letter a GDPR;

[5] Art. 6 section 1 letter a GDPR;

You may revoke all such consents at any time by, for example, sending an email at konkursy@mimuw.edu.pl. Be advised that the revocation of your consent does not affect legal compliance of processing which had been completed upon consent before its revocation.[6]

Data retention period

Your personal data collected in this recruitment process shall be stored over the period of three months from the date the recruitment process is completed.

In case you agree to process your data in future recruitments, your data shall be used over the period of nine months.

Data recipients

Officers authorized by the Controller shall have access to your personal data, the processing of which is in the scope of their duties.

~~Recipients of personal data may be other subjects obligated by the Controller to provide specific services involving data processing, like~~

~~.....~~

~~*(name all recipients of data)*~~

Data transfer outside the European Economic Area (EEA)

Your personal data shall be disclosed to subjects authorized by law. Signing-in is through Google Forms. Your personal data may be also processed by our provider of G-Suit for education by Google Company in their data processing centres.[7] Your data shall be protected under the standards of the Privacy Shield, accepted by the European Commission.[8] This shall guarantee an adequate level of data security.

Rights of the data subject

Under the GDPR data subjects have the following rights:

- to access data and to receive copies of the actual data;
- *to* correct (rectify) your personal data;
- to restrict processing of personal data;
- to erase personal data, subject to provisions of Art. 17 section 3 of the GDPR;
- to file a claim with the President of the Personal Data Protection Office, if you believe data processing violates law.

Information on the requirement to provide data

Providing your personal data in the scope resulting from law is necessary to participate in the recruitment process. Providing other personal data is voluntary.

.....	….....
place and date	applicant's signature

[6] Art. 7 section 3 GDPR;

[7] https://www.google.com/about/datacenters/inside/locations/index.html

[8] https://www.privacyshield.gov

Processing of personal data – optional declarations

We inform you that we do not require you to include any personal data other than: name and surname, date of birth, contact details, education, professional qualifications, previous employment history, all of which will be processed during recruitment without additional consent.
If you include additional data in the application, e.g. a photo, information on family situation or a special category of data, e.g. health data (including disability), please blacken them out or remove them from the application before sending it.
However, if you decide to include any of the above information, please select the "YES" option in the statement below:

1) I consent to the processing of my personal data contained in the attached application documents by the University of Warsaw for the purpose of my participation in the recruitment process, including special categories of data referred to in Art. 9 sec. 1 of the GDPR, which are included in the attached application documents, by the University of Warsaw for the purpose of my participation in the recruitment process – YES.

If you want your application to be saved for future recruitment purposes, please select "YES" and provide the storage period:
I consent to the processing of my personal data for the purpose of future recruitment processes conducted by the University of Warsaw – YES, for the next ... months[9].

..... …....
place and date applicant's signature

[9] It is necessary to specify the period