

Call for PhD studentships in an NCN QuantERA Call 2019 international research project

Project title: *Quantum information and communication with high-dimensional encoding – QuICHE*

Principal investigator: Dr Michał Karpiński

Research entity: Faculty of Physics, University of Warsaw

Number of positions available: 2

Studentship duration: until February 2023 (extendable to 36 months)

Start date: after 01.07.2020 (as agreed)

Total funding: 4500 Polish złoty/month (under certain circumstances social and health insurance contributions may be deducted from the studentship amount).

The studentship is awarded following the regulations of National Science Centre of Poland (NCN), as described in „Regulamin przyznawania stypendiów naukowych w projektach badawczych finansowanych ze środków Narodowego Centrum Nauki”, based on decision of the NCN Council no 85/2018 dated 26.09.2018.

Description of tasks:

Research work will be carried out at the Institute of Experimental Physics of the Faculty of Physics, University of Warsaw within the NCN QuantERA project “*Quantum information and communication with high-dimensional encoding – QuICHE*”.

You will carry out research tasks within the international QuICHE project at [Quantum Photonics Lab](#), under the supervision of Dr Michał Karpiński. The project is carried out in an international consortium of Imperial College London, Universities in Dusseldorf, Paderborn, Lille and Pavia, and University of Warsaw, <http://quiche.fuw.edu.pl>. Your tasks will involve experimental or theoretical work on multidimensional processing and distribution of quantum information using optical encoding in time and frequency, which may be partially carried out during research visits at international partner’s research groups.

Requirements: (following NCN regulations)

1. Master’s degree (or equivalent) in physics or a related field, or for students of final years of MSc study programmes: Bachelor’s degree (or equivalent)) in physics or a related field.
2. Knowledge of English language to a degree enabling fluent everyday communication in a laboratory setting, reading and writing scientific publications, oral presentation of research results at scientific conferences.

To be eligible to receive the stipend the candidate must either already be a doctoral student, or after being accepted for this position, must take part in the [recruitment procedure to doctoral studies at the Doctoral School of Exact and Natural Sciences of the University of Warsaw](#) .

Additional assets:

1. Experience of working in an optical laboratory
2. Knowledge of topics within nonlinear optics and/or quantum optics and/or quantum information theory and/or quantum key distribution.
3. Knowledge of basic software for computer simulations and data analysis (e.g. MATLAB, Wolfram Mathematica, LabView).
4. Experience in modern numerical modelling methods.
5. Publications in high-quality scientific journals, internships in national and/or international research institutions.

Required documents:

- 1) Cover letter (in English) with a personal data processing consent (following the form attached to this announcement).
You should provide scans of signed cover letter and signed data processing consent form.
- 2) curriculum vitae (in English), with information about your research activity and achievements to-date.
- 3) list of scientific publications and conference presentations,
- 4) copies of diplomas from your study, with study transcripts.
- 5) A letter of reference from your scientific supervisor sent directly by the supervisor to Dr Michał Karpinski, to email: [michal.karpinski \[at\] fuw.edu.pl](mailto:michal.karpinski@fuw.edu.pl)

Application deadline: 15 June 2020, 11.59 pm Warsaw time

How to apply: by e-mail to [michal.karpinski \[at\] fuw.edu.pl](mailto:michal.karpinski@fuw.edu.pl) . Please send a single email message with pdf attachments. Email subject: "PhD student application QuICHE".

Selected candidates may be invited to an interview. Interview invitations will be sent individually by email.

If a selected candidate does not take up the studentship we reserve the right to select the next candidate from the ranking list.

Additional information: please contact Dr Michał Karpiński, [michal.karpinski \[at\] fuw.edu.pl](mailto:michal.karpinski@fuw.edu.pl)

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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 law¹ (*given name (names) and family name, date of birth, contact information as provided, education, professional*

¹ Art. 22¹ of the law of June 26, 1974 Labour Code (i.e. Journal of Laws 2019 item 1040 with subsequent changes);

qualifications, previous employment) for the purposes of this recruitment process², whereas other data³ shall be processed based on your consent which may take the following wording:

I agree to the processing of personal data provided in (e.g. CV, cover letter, 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 data⁴ 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 (e.g. CV, cover letter, 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 consent⁵ 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.

You may revoke all such consents at any time by, for example, sending an email at (email address due for the recruitment process).

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.

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;

⁶ Art. 7 section 3 GDPR;

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

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(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.

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place and date

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applicant's signature

⁷ <https://www.google.com/about/datacenters/inside/locations/index.html>

⁸ <https://www.privacyshield.gov>