

Faculty of Physics University of Warsaw in the framework of NSC-Opus 14 project:
“*Superresolution hidden in the far-field and spatial-spectral transformations*”

offers

one 24-month PhD student grant

<https://www.ncn.gov.pl/sites/default/files/listy-rankingowe/2017-09-15/streszczenia/392818-pl.pdf>

Project description

The project aims at the development of methods for superresolved imaging of nanostructures with the use of hyperbolic metamaterials and compressive imaging in the far field. The main research activities will be focused on development of new photonic nanostructures and algorithms for compressive microscopy with an indirect measurement in the far field as well as of experimental systems including the imaging spectrometer and the microscopic setup.

Requirements

- good background on optics, and good knowledge of programming are required,
- well seen previous work on either electromagnetic modeling, or compressive sensing, or optical measurement techniques
- the candidate has to be subscribed in Poland to PhD studies in physics, or may be preparing a master thesis in physics, nanostructure engineering or in a similar discipline, preferably with a short perspective to subscribe to PhD studies in physics
- recruitment follows the rules for awarding scholarships set out in the Regulations for the awarding of scholarships in research projects financed from the resources of the National Science Center (annex to the resolution of the NCN Council 96/2016 of 27 October 2016)
https://ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2016/uchwala96_2016-zal1.pdf

Key responsibilities

- cooperation on the development of software and optical systems for compressive sensing and single pixel detection experiments and on the design and fabrication the hyperbolic metamaterial structure

Scholarship

- numer of scholarships: **1**
- duration: **24 months**, planned to begin not later than **December 1, 2018**
- submission deadline: **November 2, 2018**
- The scholarship is intended for one PhD student, however in case of lack of a suitable candidate the commission allows a lower scholarship to be granted to one or two 2nd degree students. Under certain circumstances, the scholarship may change, eg. after the student is recruited for PhD studies.
- In the case of students from outside the Republic of Poland, the scholarship does not cover the costs of tuition fees or removal costs.
- The candidate should provide the following documents by e-mail to the Secretariat IGF, Faculty of Physics, University of Warsaw e-mail: Sekretariat.IGF@fuw.edu.pl :
 1. Application for the position required together with the acceptance for the treatment of personal data - the information clause and the consent clause attached to the announcement. In case of submitting the application by e-mail, please use the pdf-format and the file should contain a scanned signature.
 2. The acquired diploma (MSc or Bsc) and information about students career.
 3. Current CV and the list of publications
 4. Contact details of two persons who can provide information about the candidate.

5. In case of foreigners outside of EU, EFTA and the countries that are signatories to the Convention on the Recognition of Qualifications concerning Higher Education in the European Region - a document certifying a diploma in the territory of the Republic of Poland

(<https://nawa.gov.pl/en/recognition/recognition-for-academic-purposes/applying-for-admission-to-doctoral-studies>).

The candidate, in case of being accepted, will be required to present the originals of all the documents.

The entire procedure will be concluded before November 16, 2018. The candidate might be asked for an interview with the recruitment commission. The candidate will be notified of the result of his/her application by e-mail.

Additional information about the project: dr hab. Rafał Kotyński, rafalk@fuw.edu.pl, tel. 225532008; dr Piotr Wróbel, Piotr.Wrobel@fuw.edu.pl, tel. 225532022

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(place and date)

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(signature of the person applying for employment)