

## **PERSONAL DETAILS**

Family name, First name: **Vaskivskyi, Igor**

Researcher unique identifier(s): [Google scholar](#), [ORCID](#)

Date of birth: 14. October 1988

Nationality: Slovenian, Ukrainian

URL for web site: <https://complex.ijs.si/people/dr-igor-vaskivskyi/>

### • **Education and key qualifications**

- 10/09/2015     PhD  
Faculty of Mathematics and Physics, University of Ljubljana, Slovenia.  
supervisor Prof. D. Mihailovic.
- 2011             M.Sc.  
Faculty of Physics, Taras Shevchenko National University of Kyiv, Ukraine.

### • **Current position(s)**

- 2023 – now     Research associate  
CENN Nanocenter, Slovenia
- 2019 – now     Research associate  
Complex Matter Department, Jozef Stefan Institute, Slovenia

### • **Previous position(s)**

- 2018 – 2019    Visiting researcher  
Physics department, Uppsala University, Sweden
- 2017 – 2019    Postdoctoral fellow  
Center for Memory and Magnetic Research, University of California San Diego, USA
- 2015 – 2017    Postdoctoral fellow  
CENN Nanocenter, Slovenia.
- 2011 – 2015    Assistant  
Complex Matter Department Jozef Stefan Institute, Slovenia.

## **RESEARCH ACHIEVEMENTS AND PEER RECOGNITION**

### **Selected research achievements**

- I. Vaskivskyi, et al., **Nature Photonics** (2024), doi: 10.1038/s41566-024-01389-z
- O. Granas, I. Vaskivskyi et al., **Phys. Rev. Research** (2022), doi:  
10.1103/PhysRevResearch.4.L032030
- I. Vaskivskyi, et al., **The Journal of Physical Chemistry C** (2021), doi: 10.1021/acs.jpcc.1c02311
- Y. Gerasimenko, I. Vaskivskyi, et al., **Nature Materials** (2019), doi: 10.1038/s41563-019-0423-3
- I. Vaskivskyi, et al., **Nature Communications** (2016), doi: 10.1038/ncomms11442
- I. Vaskivskyi, et al., **Science Advances** (2015), doi: 10.1126/sciadv.1500168
- L. Stojchevska, I. Vaskivskyi, et al., **Science** (2014), doi: 10.1126/science.1241591

I. Vaskivskiy, D. Mihailović, I. Mihailović. Switchable macroscopic quantum state devices and methods for their operation: US9818479 (B2), 2017-11-14. [S. I.]: US Patent Office, 2017. patent family: SI24776 (A), 2016-01-29

L. Stojchevska, T. Mertelj, I. Vaskivskiy, D. Mihailović. Ultrafast nonvolatile memory: US9589631 (B2), 2017-03-07. [S. I.]: United States Patent Office, 2017. patent family: EP2926343 (A1), 2015-10-07; SI24265 (A), 2014-06-30; WO2014084799 (A1), 2014-06-05

### **Peer recognition**

- 2024 Invited speaker at “Transformations of Correlated Electronic States by Electric or Optical Impacts” (France, upcoming)
- 2024 Invited speaker at Gordon Research Conference “Ultrafast Phenomena in Cooperative Systems” (Italy)
- 2023 Invited speaker at “Non-equilibrium Quantum Materials Design” workshop (SPICE, Germany)
- 2020 Winner of the Director’s fund (330 kEUR), Jozef Stefan Institute, Slovenia – Funding for the early-stage researchers for establishing the new research field with the proposal “The laboratory for 4D resonant magnetic spectroscopy”. An additional 220 kEUR was received from the Slovenian Research and Innovation Agency.
- 2019-2022 Obtained project for early-stage researchers from the Ministry of Science Education and Sport of RS. “CMEM: Ultrafast all-electronic charge density wave memory for next-generation computing”
- 2019 Invited speaker at “Non-equilibrium Quantum Workshop” (Slovenia)
- 2018 Invited speaker at “Non-equilibrium Quantum Workshop” (Slovenia)
- 2017 Obtained Slovenian citizenship for the reason of the state's benefit in the field of science
- 2015 Invited speaker at “EMN Meeting on Ultrafast Research” (Las Vegas, USA)
- 2015 Invited speaker at “EMN Meeting on Vacuum Electronics” (Las Vegas, USA)
- 2011-2015 Ad Futura Scholarship for foreign students in Slovenia

The results of my work were presented at more than 70 scientific conferences and workshops.

### **ADDITIONAL INFORMATION**

#### **Other contributions to the research community**

- Since 2021 Chair of the Nonequilibrium Quantum Workshop from experimental physics – an annual event, which gathers around 80 leading scientists in the field of nonequilibrium dynamics and non-thermal phase transitions: <https://nqw.ijs.si>
- Since 2020 Teaching assistant for the photonics, general optics, general physics lab courses at the Physics and Mathematics department of the University in Ljubljana.
- Since 2019 Referee for APS journals (Phys. Rev. B, Phys. Rev. Lett, Phys. Rev. Research) and Appl. Phys. Lett.
- 2014 Member of the organizing committee of the “Photoinduced Phase Transitions and Cooperative Phenomena (PIPT5)” conference.

## **Supervision of graduate students**

- 2021 – now PhD thesis supervision (Gregor Jecl, Faculty of Mathematics and Physics, University of Ljubljana, Slovenia.)
- 2022 – now Master's thesis co-supervision (Jernej Brglez, Faculty of Mathematics and Physics, University of Ljubljana, Slovenia.)
- 2015 – 2016 Master's thesis co-supervision (Jan Ravnik, Faculty of Mathematics and Physics, University of Ljubljana, Slovenia.)

## **Communication of scientific results to the public**

Activity in year 2023-2024:

- Interview for the category “Znanstvenik Spreminja Svet” in Delo ([link](#))
- Guest in the program “Podobe znanja”, Radio ARS ([link](#))
- Co-author of the article in “Proteus” (M. Vilfan and I. Vaskivskyi. Ustvarjanje atosekundnih sunkov svetlobe za preučevanje dinamike elektronov : Nobelova nagrada za fiziko za leto 2023. Proteus)

Previous activity:

As part of the presentation of the achievements of the research group, conducted several interviews with representatives of various media houses (RTV Slovenija, 24 ur, A Kanal, Delo, Dnevnik) in order to convey the achievements to the general public.

Participated in the presentation of research facilities to visitors as part of Open Days events at IJS and visits by students from various Slovenian and foreign institutions.