



## Paweł Rzońca

### Curriculum Vitae

## PERSONAL DETAILS

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|----------|--------------------|
| Birth    | May 28, 1994       |
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| Webpage  | galeonad.github.io |

## EDUCATION

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### PhD in Physics

Present

*AGH University of Science and Technology*

Faculty of Physics and Applied Computer Science.

Field: Modeling of 2D and 3D Maxwell equations systems

Supervisor: dr. hab. Andrzej Kułak

### MSc in Physics

2017-2018

*AGH University of Science and Technology*

Faculty of Physics and Applied Computer Science.

Thesis: "*Badanie krzywych chronometrycznych w kontekście hipotezy zegara*"

(*Research on chronometric curves in the context of the clock hypothesis*).

Supervisor: dr. hab. Łukasz Bratek

### BSc in Physics

2013-2017

*AGH University of Science and Technology*

Faculty of Physics and Applied Computer Science

Thesis: "*Uogólniona transformata Wignera-Weyla*" (*Generalized Wigner-Weyl transform*).

Supervisor: dr. hab. Bartłomiej Spisak

Awarded with academic performance scholarship on every year of study. Student of many additional courses including image processing and analysis, asymptotic methods, topology, nonlinear analysis and differential geometry.

## EXPERIENCE

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### Participant in scientific conference

3-5 Jul, 2019

*Pola Elektromagnetyczne ULF/ELF na Ziemi i w Przestrzeni Kosmicznej 2019*

(*ULF/ELF Electromagnetic fields on Earth and in Space 2019*)

Presentation topic: *Modeling of ELF electromagnetic waves propagation in Ground-Ionosphere Waveguide with FDTD method.*

### Participant in IT conference

15 Oct, 2018

*4Developers 2018*

Site of the event: [4developers.org.pl](http://4developers.org.pl)

**Participant in scientific conference**27-29 Jun,  
2018

*XVIII Spotkanie Ogólnopolskiego Klubu Demonstratorów Fizyki  
(XVIII Meeting of Polish Physics Demonstrators Club) Toruń*

Presentation topic: *Presentation of SKNF Bozon constructions*

**Trainee**

6 Jun 2018

*Machine Learning and Deep Learning workshop at IBM*

**Intern**4 April -30  
Jun, 2018

*Educational Student Internship at IBM*

Implementation and validation of an algorithm for unsupervised video semantic partitioning using IBM Watson and topic modeling

Supervisor: Alexandre Quemy

**Participant in scientific conference**

10 May 2018

*55. Conference of AGH Student's Scientific Circles*

Presented topic: *"Wahadło Kapicy" (Kapiza's pendulum)*

Supervisor: dr. hab. Vladimirov Vsevolod prof. AGH

**Participant in scientific conference**30 May -  
3 Jun, 2017

*Spectral Theory and Applications (STA 2017) Kraków,*

Site of the event: [www.sta2017.wms.agh.edu.pl/en](http://www.sta2017.wms.agh.edu.pl/en)

**Trainee**

8-17 Jul 2015

*Summer School Motorola II*

Training course included Image Analysis, Cloud Computing and Parallel Computing.

One of supervisors: dr Krzysztof Misztal

**Member of the Scientific Society**

2013-2015

*SKNF BOZON*

Active participation in conferences and seminars and science picnics.

([www.bozon.fis.agh.edu.pl](http://www.bozon.fis.agh.edu.pl))

**Participant in scientific conference**

7 May 2015

*52. Conference of AGH Student's Scientific Circles*

Presentation topic: *"Ferro-fluid - make your own intelligent magnetic fluid"*

Supervisor: prof. Czesław Kapusta

**SKILLS**

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*Languages*

Polish (Native)  
English (Upper-Intermediate)

*Software*

Python, C/C++, Git, Mathematica, Matlab, L<sup>A</sup>T<sub>E</sub>X, VIM, Docker

*Operating  
Systems*

Linux, Windows

*Soft skills*

problem-solving, logical and analytical thinking, quick learner

## **INTERESTS**

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solving puzzles, math tricks, electronics, data science

## **REFERENCES**

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Available upon request

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