



## Paweł Rzońca

*Curriculum Vitae*

### PERSONAL DETAILS

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<i>Birth</i>	May 28, 1994
<i>Phone</i>	(+48) 780 044 751
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<i>AGH mail</i>	galeon@agh.edu.pl
<i>Webpage</i>	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

Obtained IBM Advanced Data Science certificate, Mathematics for Machine Learning certificate and more. Full list of certificates and projects available at my web-page.

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***4Developers 2018*Site of the event: [4developers.org.pl](http://4developers.org.pl)

15 Oct, 2018

**Participant in scientific conference***XVIII Spotkanie Ogólnopolskiego Klubu Demonstratorów Fizyki  
(XVIII Meeting of Polish Physics Demonstrators Club) Toruń*Presentation topic: *Presentation of SKNF Bozon constructions*27-29 Jun,  
2018**Trainee***Machine Learning and Deep Learning workshop at IBM*

6 Jun 2018

**Intern***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

4 April -30  
Jun, 2018**Participant in scientific conference***55. Conference of AGH Student's Scientific Circles*Presented topic: *"Wahadło Kapicy" (Kapiza's pendulum)*

Supervisor: dr. hab. Vladimirov Vsevolod prof. AGH

10 May 2018

**Participant in scientific conference***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)30 May -  
3 Jun, 2017**Trainee***Summer School Motorola II*

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

One of supervisors: dr Krzysztof Misztal

8-17 Jul 2015

**Member of the Scientific Society***SKNF BOZON*

Active participation in conferences and seminars and science picnics.

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

2013-2015

**Participant in scientific conference***52. Conference of AGH Student's Scientific Circles*Presentation topic: *"Ferro-fluid - make your own intelligent magnetic fluid"*

Supervisor: prof. Czesław Kapusta

7 May 2015

## SKILLS

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<i>Languages</i>	Polish (Native) English (Upper-Intermediate)
<i>Software</i>	Python (scipy, pandas, scikit-learn, numba) C/C++ (Boost.Python, STL) Mathematica (plotting, solving differential equations) Matlab (machine learning, Simulink) SQL (basics) L <sup>A</sup> T <sub>E</sub> X VIM Git (basics) Docker (basics)
<i>Operating Systems</i>	Linux, Windows
<i>Soft skills</i>	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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Availiable upon request

*I hereby agree for my personal data, included in my job application, to be processed in line with the needs of recruitment, in accordance with the Law on Personal Data Protection of 29 August 1997 (Law Gazette from 2002, No.101, heading 926, as amended).*