

Krzysztof SKORUPSKI, PhD



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▪ Professional experience:

2016 – 2018	Assistant professor at Wrocław University of Technology.
2013 – 2016	Research / Teaching assistant at Wrocław University of Technology.
2012 – 2013	Teaching assistant (professional practice for PhD students).
2011 – 2012	Research assistant at Stiftung Institut für Werkstofftechnik.
2010 – 2011	Teaching assistant (professional practice for PhD students).
2010	Vice-chairman of the local electoral committee during the Presidential Election.
2010	Technical help at the largest Polish hippology workshop.

Professional awards:

(2016): The nomination for the “Iuvenes Wratislaviae” award / The award for achievements.
(2014, 2016): The award for achievements and creating a positive image of Wrocław University of Technology.
(2013, 2014, 2015, 2016, 2017): Supplementary research funding / The “Young Scientists” programme.

No. of publications 22 / No. of external (non-self) citations: 50; H-index: 4.

▪ Academic background:

2010 – 2016	PhD studies at Wrocław University of Technology, Faculty of Electronics. Thesis: Light scattering by sintered fractal-like aggregates
2005 – 2010	MSc studies at Wrocław University of Technology, Faculty of Electronics. Thesis: The use of artificial neural networks in biometric systems.

Academic awards:

(2016): The decision of the Faculty Council to honor the PhD thesis.
(2015): Supplementary scholarship for the best PhD students.
(2010): The congratulatory letter for finishing MSc with honors.

Scholarship for MSc / PhD students from 2006 to 2013.

▪ Professional skills:

- **Programing/script languages:** Java, Matlab, LabVIEW, C/C++, etc.
- **Microcontroller architecture:** ARM, AVR, MSP430, etc.
- Knowledge of SQL systems. Knowledge of NoSQL and graph databases (e.g. Neo4j).
- Experience in creating mathematical models of various physical phenomena.
- Ability to extract and process required data using various tools and techniques (e.g. Splunk).
- Understanding the concept of big data and awareness of machine learning techniques.
- Experience in writing/reviewing scientific papers, presenting results and giving talks at conferences.
- Ability to learn quickly and work in international teams.
- Experience in managing scientific projects and controlling related expenses.
- Vast knowledge of light-based technologies and material science.
- Ability to design and analyze electronic circuits.

The up-to-date list of professional trainings can be found on my personal web page - <http://scattering.eu/supplement.pdf>.

▪ Language skills / Internships:

C1.2 - English	Experience acquired by writing papers and working in international teams / CAE.
B2.1 - German	Experience acquired by working and living in Germany.
A2.2 - Spanish	Education ended on B2 level (at the moment the knowledge is passive).
A1.2 - Norwegian	Education started in 2016.
08.2017	Investigation of heterojunctions / Detection of bacteria using light / IWT.
08.2016	Modeling the light scattering phenomenon using the BEM algorithm / IWT.
07.2015	Adapting the DDA algorithm for exceptionally large fractal-like aggregates / IWT.
07.2014	Retrieving morphological parameters from microscopy images / VKI.
06.2013 – 09.2013	Modeling of the sintering process / Identifying necks between ITO particles / IWT.
09.2011 – 08.2012	Investigation and modeling of the black carbon aggregation process / IWT.

▪ Research field / Additional skills / Interests:

- Photonics / Plasmonics
- Machine learning
- Tropospheric particles
- The aggregation process
- Light scattering
- Machine vision
- Composite materials
- The sintering process
- Nanoparticle detection and measurement
- Modelling of physical phenomena
- Fractal geometry
- The title of the Certified Emergency Medical Responder.
- European Driving License, cat. A/B.
- Various kind of sports: martial arts (Goju-Ryu, Wing-Tsun), yoga, windsurfing, tennis/squash/badminton, etc.
- Traveling, hiking, meeting new people, experiencing different cultures.
- Learning about computer science, image processing, artificial intelligence and biometrics.
- Topics related to cosmology, philosophy and psychology.

▪ References:

- Director of the “Chair of Electronic and Photonic Metrology” at Wrocław University of Technology.
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- Director of the “Powder and Particle Measurement” group at IWT Bremen (Stiftung Institut für Werkstofftechnik).
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The extended version of the CV with all the attachments can be found on my personal web page.