

Krzysztof SKORUPSKI



Address: ---
Date of birth: ---
E-mail address: light@scattering.eu
Telephone / Skype: ---
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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.
(2015, 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 / Citations (excluding self-citations): 38; H-index: 3.

Education:

2010 – 2016 [PhD studies](#) at Wrocław University of Technology, Faculty of Electronics.
[Thesis](#): Light scattering by sintered fractal-like aggregates / Rev. [1](#), [2](#).
2005 – 2010 [MSc studies](#) at Wrocław University of Technology, Faculty of Electronics.
[Thesis](#): The use of artificial neural network 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.
(2006, 2007, 2008, 2009, 2010, 2011, 2012): Scholarship for MSc / PhD students.

Professional skills:

- **Programing/script languages:** Java, C/C++, Assembly, Matlab/Simulink, LabVIEW, etc.
- **Microcontroller architecture:** ARM, AVR, DSP, MSP430, etc.
- **Relative databases:** MS Access, MySQL, etc.
- Knowledge of object oriented programming and design patterns / Ability to design multithreaded applications.
- Knowledge of microcontroller programming, communication interfaces and sensors.
- Ability to design and analyze electronic circuits using: Altium Designer, PSpice, etc.
- Knowledge of Windows/Linux operating systems and numerous graphics/office programs, including LaTeX.
- Experience in writing/[reviewing](#) scientific papers, giving talks at conferences and working in international teams.
- Experience in managing scientific projects and controlling related expenses.
- Experience in creating mathematical models of various physical phenomena.
- Vast knowledge of light-based technologies and material science.
- Experience in teaching (excellent evaluation results): [1](#), [2](#).

The up-to-date list of professional trainings and courses can be found on my web page.

Language skills / Internships:

C1 –  English	Experience acquired by writing papers and working in international teams / CAE .
B2 –  German	Experience acquired by working and living in Germany.
B1 –  Spanish	Education ended on B2 level (at the moment the knowledge is passive).
A1 –  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 .

Additional skills / Interests:

- 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.

Research field:

- | | | |
|---------------------------|-------------------------|--|
| - Photonics / Plasmonics | - Light scattering | - Nanoparticle detection and measurement |
| - Machine vision | - Composite materials | - Modelling of physical phenomena |
| - Tropospheric particles | - Climate changes | - Fractal geometry |
| - The aggregation process | - The sintering process | |

References:

Prof. zw. dr hab. inż. Janusz Mroczka, czł. koresp. PAN

Director of the “Chair of Electronic and Photonic Metrology” at Wrocław University of Technology.

Telephone number: ---

E-mail address: ---

Dr.-Ing. Thomas Wriedt

Director of the “Powder and Particle Measurement” group at IWT Bremen (Stiftung Institut für Werkstofftechnik).

Telephone number: ---

E-mail address: ---



The extended version of the CV with all the attachments can be found on my web page