



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Jan Blachowski
Grade / Title:	Dr hab. inż.
Scientific discipline	inżynieria środowiska, górnictwo i energetyka / environmental engineering, mining, and energy
Faculty:	W6 Wydział Geologii Geoinżynierii, Górnictwa i Geologii / Faculty of Geoengineering, Mining and Geology
Email address:	Jan.blachowski@pwr.edu.pl
Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	https://wggg.pwr.edu.pl/pracownicy/jan-blachowski

2. Publication record

Up to 10 most important papers published over the period of previous 10 years.

No.	Description (authors, publication title, journal / conference, DOI)	Publication year
1.	Blachowski J., Dynowski A., Buczyńska A., Ellefmo S.L., Walerysiak N., Integrated Spatiotemporal Analysis of Vegetation Condition in a Complex Post-Mining Area: Lignite Mine Case Study. Remote Sensing, 15, 3067. https://doi.org/10.3390/rs15123067	2023
2.	Buczyńska A., Blachowski J., Bugajska N., Analysis of post-mining vegetation development using remote sensing and spatial regression approach: a case study of former Babina mine (Western Poland). Remote Sensing, . vol. 15, no 3, pp. 1-23	2023
3.	Buczyńska A., Blachowski J. Proposal of a new mining and geology Impact Factor (MaGIF) index for the study of post-mining environment. Catena (Elsevier), vol. 232, art. 107463,	2023
4.	Blachowski J., Becker M., Kujawa P., Koźma J., Warchała E., Dynowski A., Pawlik M., Wajs J., Buczyńska A., Transformation processes in lignite post-mining landscape - erosion of anthropogenic formations in the former "Przyjazn Narodow - Szyb Babina" mine (Poland). Zeitschrift der Deutschen Gesellschaft für Geowissenschaften, vol. 173, no 4, pp. 565-580	2023
5.	Gładka A., Blachowski J., Rymaszewska J., Zatoński T., Investigating relationship between particulate matter air concentrations and suicides using geographic information system, Psychology Health & Medicine, vol. 27, no 10, pp. 2238-2245	2022
6.	Bęcek K., Ibrahim K., Bayik C., Abdikan S., Kutoğlu S.H., Głąbicki D., Blachowski J. Identifying land subsidence using global digital elevation models. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol. 14, pp. 8989-8998	2021
7.	Blachowski J., Chojwa M., Assessing the cooling effect of four urban parks of different	2021



	sizes in a temperate continental climate zone: Wrocław (Poland). Forests, vol. 12, nr 8	
8.	Blachowski J., Jiráňková E., Lazecký M., Kadlečík P., Milczarek W. Application of satellite radar interferometry (PSInSAR) in analysis of secondary surface deformations in mining areas. Case studies from Czech Republic and Poland. Acta Geodynamica et Geomaterialia, vol. 15, no 2, pp. 173-185	2018
9.	Milczarek W., Blachowski J., Grzempowski P., Application of PSInSAR for assessment of surface deformations in post-mining area – case study of the former Walbrzych Hard Coal Basin (SW Poland). Acta Geodynamica et Geomaterialia, 14:1 (185), 41–52, 2017, DOI: 10.13168/AGG.2016.0026	2016
10.	Blachowski J., Application of GIS spatial regression methods in assessment of land subsidence in complicated mining conditions - case study of the Walbrzych coal mine (SW Poland). Natural Hazards, 84:997–1014, DOI: 10.1007/s11069-016-2470-2	2016

3. Projects and grants

List of the most important 5 projects/grants with basic description including: title, source(s) of funding, name of the call, role in the project (e.g., principal investigator).

1.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	Genesis and course of anthropogenic and natural deformations of the terrain in post-mining areas of the former brown coal mine "Babina" (2019/33/B/ST10/02975)
	Sources of funding	National Research Centre (NCN)
	Name of the call	OPUS-17
	Implementation period	2.2020-11.2023
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	Smart System for Underground Impact Geomonitoring (SMEG)
	Sources of funding	National Agency for Academic Exchange
	Name of the call	Polish-German Bilateral Cooperation
	Implementation period	1.2022-12.2023
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	Genesis and course of anthropogenic and natural deformations of the terrain in post-mining areas of the former brown coal mine "Babina". Stage 2: The influence of hydrogeological conditions on the process of land deformations in post-mining areas. (2021/43/B/ST10/02157)
	Sources of funding	National Research Centre (NCN)
	Name of the call	OPUS-22
	Implementation period	11.2022-11.2025
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator



	Project title	Closed-Loop Impact Monitoring for Environmentally and Socially Acceptable Energy Transition in Rural Regions
	Sources of funding	National Centre for Research and Development
	Name of the call	4 th Polish German Cooperation Call
	Implementation period	8.2022-7.2025
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	Principal Investigator
	Project title	Studies of mining impacts on the surrounding environment - developing the methodology of description and prediction of deformations based on machine learning
	Sources of funding	National Agency for Academic Exchange
	Name of the call	M. Bekker Call
	Implementation period	4.2022-12.2022

4. International experience

Brief description of international cooperation and experience (e.g., research stays, cooperation with foreign entities, coordination or participation in international projects or programmes, keynote speeches and presentations delivered at renowned international conferences, visiting professor stays, invited lectures).

No.	Description	Year(s)
1.	Department of Geology and Mineral Resources Engineering, Norwegian University of Science and Technology, Trondheim, Norway	2022, 8 months
2.	Institute of Mine Surveying and Geodesy, Faculty of Geosciences, Geoengineering and Mining, Technical University Bergakademie Freiberg, Germany	2021, 1 week
3.	ISPRS Summer School: Geospatial technologies for natural environment management and monitoring, Wrocław University of Science and Technology, Wrocław; Poland	2019, 1 week
4.	Faculty of Engineering, Bulent Ecevit University, Zonguldak, Turcja,	2017, 1 week
5.	Faculty of Engineering, Bulent Ecevit University, Zonguldak, Turcja,	2016, 1 week
6.	Visiting scholar, Leibniz Institute of Ecological Urban and Regional Development, Dresden, Germany	2014, 2 weeks
7.	Department of Geology and Mineral Resources Engineering, Norwegian University of Science and Technology, Trondheim, Norway,	2013, 2 weeks
8.	Canadian Centre for Geodetic Engineering, University of New Brunswick, Fredericton, Canada	2012, 3 months
	Department of Geology and Mineral Resources Engineering, Norwegian University of Science and Technology, Trondheim, Norway,	2011, 2 weeks
	Visiting researcher, Department of Geology and Mineral Resources Engineering, Norwegian University of Science and Technology, Trondheim, Norway	2009, 5 months
	Royal Town Planning Institute – West Midlands Branch, UK	2007, 2 weeks
	Referat Europäische Raumordnung Regionalentwicklung, Department of Land Development and Geodesy, Ministry of Internal Affairs, Dresden, Germany	2006, 3 weeks
	European Advanced School on Tectonics, International Centre for Theoretical Physics, Trieste, Italy	2005, 1 week.



5. Experience in teaching doctoral students

Brief description of experience in teaching doctoral students (e.g., courses in doctoral schools and PhD studies, summer/winter schools for doctoral students, tutorials, trainings, etc.).

No.	Description	Year(s)
1.	ISPRS Summer School: Geospatial technologies for natural environment management and monitoring	2019
2.		
3.		

6. List of supervised doctoral students

List of all supervised doctoral students that defended the PhD including: name of the student, dissertation title, year of awarding PhD.

No.	Name, surname	Dissertation title	Year of awarding PhD
1.	Anna Buczyńska	Modelowanie wpływu dawnej, złożonej działalności górniczej na stan wybranych komponentów środowiska przyrodniczego w obszarze glacitektonicznym	2023
2.	Karolina Owczarz	Modelowanie przemieszczeń powierzchni terenu wywołanych sejsmicznością indukowaną z zastosowaniem metody uczenia maszynowego	2022

7. Prizes and awards

The most important national and international prizes and awards related to research, development and teaching activities.

No.	Description	Year
1.	Opiekun pracy dyplomowej inżynierskiej wyróżnionej 2 miejscem w konkursie na najlepsze prace dyplomowe obronione na kierunku geodezja i kartografia w 2021/2022 roku w konkursie Stowarzyszenia Geodetów Polskich (inż. Karolina Tomczak)	2023
2.	Nagroda Rektora Politechniki Wrocławskiej za wybitny wkład w rozwój uczelni (2007, 2013, 2014, 2018, 2020, 2021, 2022)	2007, 2013, 2014, 2018, 2020, 2021, 2022
3.	ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences Outstanding Reviewer Award	2022
4.	Generalny Dyrektor Górniczy III stopnia	2021
5.	Opiekun pracy dyplomowej wyróżnionej w konkursie wrocławskiego oddziału Towarzystwa Urbanistów Polskich (mgr inż. Paulina Szrama)	2020
6.	Nagroda im. Prof. Bolesława Krupińskiego „Przeglądu Górniczego” (3 miejsce)	2020
7.	Nagroda Docendo Discimus Rektora Politechniki Wrocławskiej	2019
8.	Dyrektor Górniczy I stopnia	2018
9.	Honorowa Odznaka Zasłużony dla Górnictwa	2018
10.	Złota Odznaka Politechniki Wrocławskiej	2018



11.	Srebrna Odznaka Zasłużony dla Województwa Dolnośląskiego	2016
12.	Brązowy Medal za Długoletnią Służbę	2016
13.	Dyrektor Górniczy III stopnia	2011
14.	Wyróżnienie Marszałka Województwa Dolnośląskiego	2003, 2007
	Nagroda zespołowa 2. stopnia Ministra Infrastruktury za wybitne osiągnięcia twórcze i naukowe w dziedzinie architektury, budownictwa, planowania przestrzennego, urbanistyki oraz geodezji i kartografii	2003, 2007

8. Other significant achievements

Information on other significant achievements related to research, development and teaching activities.

Supervisor of Student geographic Information Systems Research Society

International Society for Photogrammetry and Remote Sensing (ISPRS) – member

International Society for Mine Surveying (ISM) - member

Polish Association for Spatial Information (PASI) – head of Lower Silesia Commission

Commission on Protection of Mining Areas Polish Academy of Sciences – member

Other upon request