

ACADEMIC TEACHER PROFESSIONAL EXPERIENCE DOCTORAL SCHOOL OF WROCŁAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Monika Podwórna
Grade / Title:	Dr hab. inż
Scientific discipline	inżynieria lądowa, geodezja i transport / civil engineering, geodesy and transport
Faculty:	W2 Wydział Budownictwa Lądowego i Wodnego / Faculty of Civil Engineering
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Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	Monika Podworna (researchgate.net)

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.	Podwórna M., Klasztorny M., Vertical vibrations of composite bridge / track	2014
	structure / high-speed train systems. Part 1: Series-OF-types of steel-	
	concrete bridges, Bulletin of the Polish Academy of Sciences: Technical	
	0018	
2.	Podwórna M., Klasztorny M., Vertical vibrations of composite bridge / track	2014
	structure / high-speed train systems. Part 2: Physical and mathematical	
	modelling, Bulletin of the Polish Academy of Sciences: Technical Sciences,	
	62:1 (2014) 181–196, <u>http://dx.doi.org/10.2478/bpasts-2014-0019</u>	
3.	Podwórna M., Klasztorny M., Vertical vibrations of composite bridge / track	2014
	structure / high-speed train systems. Part 3: Deterministic and random	
	vibrations of exemplary system, Bulletin of the Polish Academy of Sciences:	
	Technical Sciences, 62:2 (2014) 305–320, <u>http://dx.doi.org/10.2478/bpasts-</u>	
	<u>2014-0030</u>	
4.	Podwórna M., Modelling of random vertical irregularities of railway tracks,	2015
	International Journal of Applied Mechanics and Engineering, 20:3 (2015)	
	647–655, <u>http://dx.doi.org/10.1515/ijame-2015-0043</u>	
5.	Podwórna M., Dynamic response of steel-concrete composite bridges	2017
	loaded by high-speed train, Structural Engineering and Mechanics, 62:2	
	(2017) 179–196, <u>http://dx.doi.org/10.12989/sem.2017.62.2.179</u>	
6.	Podwórna M., Śniady P., Grosel J., Random vibrations of a structure modified	2021
	by damped absorbers, Probabilistic Engineering Mechanics 66 (2021)	
	103151, <u>https://doi.org/10.1016/j.probengmech.2021.103151</u>	
7.	Grosel J., Podwórna M., Optimisation of absorber parameters in the case of	2021
	stochastic vibrations in a bridge with a deck platform for servicing pipelines,	
	Studia Geotechnica et Mechanica, (2021); 1–9	
	https://www.sciendo.com/article/10.2478/sgem-2021-0030	



8.	Anysz H., Podwórna M., Ibadov N., Lennerts K., Dikarev K., Hybrid Predictions of the Homogenous Properties' Market Value with the Use of ANN, Archives	2021
	Of Civil Engineering, Vol. LXVII ISSUE 1, (2021) 285-301,	
	https://doi.org/10.24425/ace.2021.136474	
9.	Podwórna, M. The aging of a building versus its life cycle with regards to	2022
	real estate appraisal. Real Estate Management and Valuation, 30(2),	
	(2022) 84-95 <u>https://doi.org/10.2478/remav-2022-0016</u>	
10.	Podwórna, M., Sawicki, M. Real estate appraisal using the liquidation cost	2023
	method – A case study. Real Estate Management and Valuation, 31(3),	
	(2023), 75-82. <u>https://doi.org/10.2478/remav-2023-0023</u>	

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.	work nackage leader
±.	nrincipal investigator	
	work package leader atc.)	
-	work package leader, etc.)	
	Project title	Dynamics of composite railway bridges for high-speed railways
		including approach zones and random parameters
	Sources of funding	National Council for Scientific Research (Cracow, Poland, PL)
	Name of the call	NCN nr N N506 0992 40
	Implementation period	2011–2013
2.	Role in the project (e.g.,	principal investigator
	principal investigator,	
	work package leader, etc.)	
	Project title	Scalable and real-time solution for automatic estimation of
	-	property reconstruction costs
	Sources of funding	National Council for Scientific Research (Warsaw, Poland, PL)
	Name of the call	POIR.01.01.01-00-1136/21
	Implementation period	2022-2023
3.	Role in the project (e.g.,	principal investigator
	principal investigator,	
	work package leader, etc.)	
	Project title	Computer aided design of steel bridges located on high-speed
		railroad lines
	Sources of funding	National Council for Scientific Research (Warsaw, Poland, PL)
	Name of the call	KBN Nr 8 T07E 024 20
	Implementation period	2001–2003
4.	Role in the project (e.g.,	investigator
	principal investigator,	
	work package leader, etc.)	
	Project title	Development of nonlinear random vibration theory and software
	-	for dynamic calculations of railway bridges
	Sources of funding	National Council for Scientific Research (Warsaw. Poland. PL)
	- 0	
	Name of the call	KBN Nr 7 T07E 036 12



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5.	Role in the project (e.g.,	Investigator, faculty coordinator	
	principal investigator,		
	work package leader, etc.)		
	Project title	ZPR PWr - Integrated Development Program of Wrocław	
		University of Science and Technology	
	Sources of funding	National Council for Scientific Research (Warsaw, Poland, PL)	
	Name of the call	POWR.03.05.00-IP.08-00-PZ3/17	
	Implementation period	2018-2022	

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.	Presenter on the 2nd European Conf. on Computational Mechanics, ECCM-	2001
	2001	
2.	4th International Conference on Structural Dynamics, EURODYN 2002,	2002
	Munich, Germany	
3.	Presenter on the 14th International Conference on Civil, Structural and	2013
	Environmental Engineering Computing, Cagliari, Sardinia, Italy	
4.	Presenter on the 20th International Conference on Computer Methods in	2013
	Mechanics, CMM 2013	
5.	Presenter on the XXVII RSP Seminar: Theoretical Foundation of Civil	2018
	Engineering, Rostov-on-Don, Russia	
6.	Presenter on the 4th International Conference on Railway Technology:	2018
	Research, Development and Maintenance, Barcelona, Spain	
7.	Chairperson on XXVIII. Polish – Slovak - Russian Seminar: Theoretical	2019
	Foundation of Civil Engineering – Zilina, Slovakia	
8.	Co-chair organizing committee on XXIX. RSP SEMINAR – Wroclaw, Poland	2020
9.	Keynote speaker on EUROCIVIL 2024 International Congress And Expo On	2024
	Civil And Structural Engineering - Edinburgh, Scotland	
10.	Member of organizing committee on CUTE2024 The 4th International	2024
	Conference on Sustainable Development in Civil, Urban and Transportation	
	Engineering – Wroclaw, Poland	

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.	-	
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.



Wrocław University of Science and Technology Doctoral School

No.	Name, surname	Dissertation title	Year of awarding PhD
1.	-		0
2.	-		
3.	-		

7. Prizes and awards

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

No.	Description	Year
1.	Recognized European Valuer TEGoVA	2008
2.	Gold Badge of the Wroclaw University of Science and Technology	2010
3.	Bronze Medal for Long Service (awarded by the Polish President)	2014
4.	Awards of the Rector of WUST	

8. Other significant achievements

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

1997 - the licence of a real estate appraiser in Poland

2003 – the licence to direct construction works in the field of building structures without limitations