



ACADEMIC TEACHER PROFESSIONAL EXPERIENCE

DOCTORAL SCHOOL OF WROCŁAW UNIVERSITY OF SCIENCE AND TECHNOLOGY

1. Basic information

Name, surname:	Łukasz Płociniczak
Grade / Title:	dr hab. inż.
Scientific discipline	matematyka / mathematics
Faculty:	W13 Wydział Matematyki / Faculty of Pure and Applied Mathematics
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Link to home page and/or research profiles (Google Scholar, ResearchGate, etc.)	https://prac.im.pwr.edu.pl/~plociniczak/

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.	Error of the Galerkin scheme for a semilinear subdiffusion equation with time-dependent coefficients and nonsmooth data	2023
2.	Numerical scheme for Erdélyi–Kober fractional diffusion equation using Galerkin–Hermite method	2023
3.	A linear Galerkin numerical method for a quasilinear subdiffusion equation	2022
4.	Numerical method for a time-fractional porous medium equation	2022
5.	Approximation of the Erdelyi-Kober fractional operator with application to the time-fractional porous medium equation	2014
6.	Analytical studies of a time-fractional porous medium equation. Derivation, approximation and applications	2015
7.	Asymptotic analysis of internal relaxation-oscillations in a conceptual climate model	2020
8.	Hopf bifurcation in a conceptual climate model with ice-albedo and precipitation-temperature feedbacks,	2020
9.	Hopf bifurcation in a conceptual climate model with ice-albedo and precipitation-temperature feedbacks,	2020
10.	Solution and asymptotic analysis of a boundary value problem in the spring-mass model of running	2020

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.)	PI
	Project title	Metody numeryczne dla nielokalnych i nieliniowych równań parabolicznych



	Sources of funding	NCN
	Name of the call	Sonata Bis
	Implementation period	2018-2026
2.	Role in the project (e.g., principal investigator, work package leader, etc.)	PI
	Project title	Nieliniowe równanie dyfuzji anomalnej. Istnienie, jednoznaczność, asymptotyka oraz metody numeryczne
	Sources of funding	NCN
	Name of the call	Sonata
	Implementation period	2016-2018
3.	Role in the project (e.g., principal investigator, work package leader, etc.)	PI
	Project title	Problemy odwrotne w nieliniowym zagadnieniu brzegowym
	Sources of funding	NCN
	Name of the call	Preludium
	Implementation period	2013-2015
4.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	
5.	Role in the project (e.g., principal investigator, work package leader, etc.)	
	Project title	
	Sources of funding	
	Name of the call	
	Implementation period	

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.	Cooperation with: Uniwersiad de Malaga, Universidad Autonoma de Madrid, Universidad de Las Palmas de Gran Canaria, Lehigh University, City University of London	2012-2023
2.	Many invited talks at various foreign conferences	
3.	Several invited lectures	

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.	Applied Partial Differential Equations	2020, 2022
2.	Recent research trends in mathematics	2021
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.	Mateusz Światała	Nieliniowe równanie różniczkowe opisujące dynamikę podsiąku kapilarnego	2022
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.	Dionizy Smolenski Prize, PWr	2019
2.	Robert Bartoszyński Award	2018
3.	Outstanding your researcher scholarship, MNiSW	2018-2020

8. Other significant achievements

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