

Prospective supervisor's form

Name of the supervisor: Grzegorz Graff

Academic title: dr hab

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Gdańsk University of Technology Faculty of Applied Physics and Mathematics

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Discipline: mathematics [M] none

Optional

Key words (obligatory four key words describing research interests / expertise):

Dynamical systems

Fixed and periodic point theory

Applied mathematics

Mathematical methods in medicine

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 42/44

2. Citations excluding self-citations WoS 121 Scopus 134

3. Hirsch index WoS 10 Scopus 10

1. The number of PhD students who have graduated under your supervision: 2

2. The number of PhD students currently supervised:

a. within the current doctoral school 0

b. within doctoral studies (previous system) 1

3. Are you currently accepting new PhD students:

a. Polish Yes/No Yes

b. Foreign Yes/No Yes

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Research interests or topics offered for PhD research (no more than 2000 characters)ⁱⁱ

Dynamical systems, fixed and periodic point theory, topology, applied mathematics (in particular applications of mathematical methods in medicine).

Funding or special equipment needed to carry out a PhD project ⁱⁱⁱ:

1. Is funding available for experimental work: *Yes/No/not needed*

2. Is the equipment needed to complete a PhD project available in your lab/department: *Yes/No/not needed*

Most important publications – no more than 5 published after 1.01.2018

No	Authors/title/journal	Number of points according to the current list of the Ministry of Science and Higher Education	Publication year
1.	José M. Amigó, Beata Graff, Grzegorz Graff, Roberto Monetti and Katarzyna Tessmer, Detecting coupling directions with transcript mutual information: A comparative study, DISCRETE AND CONTINUOUS doi: 10.3934/dcdsb.2019051.	100	2019
2.	Graff, Grzegorz; Lebiedź, Małgorzata; Myszkowski, Adrian; Periodic expansion in determining minimal sets of Lefschetz periods for Morse–Smale diffeomorphisms. J. Fixed Point Theory Appl. 21 (2019), no. 2, 21:47.	100	2019

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3.	Graff, Grzegorz; Misiurewicz, Michał; Nowak-Przygodzki, Piotr Periodic points for sphere maps preserving monopole foliations. Qual. Theory Dyn. Syst. 18 (2019), no. 2, 533–546.	100	2019
4.	Graff, Grzegorz; Signerska-Rynkowska, Justyna, Dynamics of Field Line Mappings in Magnetic Flux Tubes, MATHEMATICAL PHYSICS ANALYSIS AND GEOMETRY Volume: 21 Issue: 3 Article Number: 26	70	2018
5.	Graff, Grzegorz; Lebiedz, Malgorzata; Nowak-Przygodzki, Piotr, Generating sequences of Lefschetz numbers of iterates, MONATSHEFTE FUR MATHEMATIK Volume: 188 Issue: 3, 511-525.	70	2018

Most recent externally funded projects you were involved in – no more than 3

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Years	Role in the project ⁱ
1.	Topological invariants: the structure of a space and its self-maps SHENG konkurs na polsko-chińskie projekty badawcze NCN UMO-2018/30/Q/ST1/00228 amount of funding: 561 120, Gdansk University of Technology	2019-2022	PI
2.	Topological invariants and measures of complexity in action, NCN-grant Opus nr 2014/15/B/ST1/01710, amount of funding: 297 960 PLN, Gdansk University of Technology	2015-2018	PI
3.	Center of Applied Mathematics, NCBR grant UDA POKL 04.02.00-108/11-00 amount of funding 1 958 132.10 PLN, Gdansk University of Technology	2012-2015	PI

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Additional relevant information – (no more than 1600 characters)^v

Dr hab Grzegorz Graff, prof nadzw. PG further information: head of Department of Differential Equation and Applied Mathematics at Gdansk University of Technology.
Member of Polish Mathematical Society, PhD advisor of 2 complete thesis (one with distinctions) and the advisor of 15 MSc thesis, 3 bachelor thesis and 2 engineer's thesis.
Editor of 3 scientific monographs ("Mathematical methods in applications" 2013, 2014, 2015).
In 2005 awarded the Senior Fulbright Fellowship for conducting research at Center of Nonlinear Science at Georgia Institute of Technology (USA).
Member of the editorial board of the journal "Mathematica Applicanda" and the journal of Polish Mathematical Society "Wiadomosci Matematyczne" ("Mathematical News"). The organizer of 12 conferences and workshops.

- ⁱ You may select up to two disciplines out of 12 disciplines represented in the Doctoral School
- ⁱⁱ Observe the limit of not more than 2000 characters
- ⁱⁱⁱ Leave only one answer
- ^{iv} Select the role in the project: PI stands for principal investigator (refers to the holder of an independent grant and the lead researcher for the grant project), Co-I for co-investigator (Co-I assists the principal investigator in the management and leadership of the research project), R for researcher
- ^v Add any other relevant information e.g. awards for PhD students whom you supervised (no more than 1600 characters)