

Joanna Janczewska obtained her PhD degree at the University of Gdansk in 2002. From October 1999 to September 2004 she was an assistant at the University of Gdansk.

Since October 2004 she has been an assistant professor at the Gdansk University of Technology. Moreover, from October 2008 to September 2010 she had a visiting position in the Institute of Mathematics of the Polish Academy of Sciences.

Her mathematical interests have always concentrated on variational and topological method in nonlinear analysis. Since 2000 she has been an active participant of the seminar on nonlinear analysis organized by prof. Kazimierz Gęba and prof. Marek Izydorek.

Her researches go in two directions: a variational approach to the study of existence and multiplicity of homoclinic and heteroclinic solutions for second order Hamiltonian systems and bifurcation of equilibrium forms in Karman's equations. In the first direction of research, she introduced an approximative method of finding almost homoclinic solutions for second order perturbed Hamiltonian systems. In 2015 according to Web of Science her paper joint with M. Izydorek: *Homoclinic solutions for a class of the second order Hamiltonian systems* [J. Differential Equations 219 (2005), no. 2, 375–389] took the second place at the list Top Papers for Poland in Mathematics and up till now it was cited 154 times. In the second direction of research, she proved a necessary and sufficient condition for bifurcation in Karman's equations for a circular elastic plate on an elastic foundation under the action of compressing forces. In the 24th of May 2013 she received the Prize for the Best Scholarly in the national competition for the best paper concerning mathematics and its applications organized by Centre of Applied Mathematics in Gdansk for her work: *Multiple bifurcation in the solution set of the von Karman equations with  $S^1$ -symmetries* [Bull. Belg. Math. Soc. Simon Stevin 15 (2008), no. 1, 109–126].

She is the author of 29 papers published mostly in the major international mathematical journals. She has also acted as a referee for international mathematical journals. She took part in about 30 professional meetings (conferences, workshops and schools) and gave a talk in the most of them. She participated in three research projects as a co-investigator and in one as a principal investigator.

Recently, she has been concerned with singular Hamiltonian systems with a strong force condition. Since January 2016 she has been a coordinator from the Polish side of the project PPP-PL no. 57217076: *Morse Theoretical Methods in Hamiltonian Dynamics* supported by DAAD and MNiSW. The coordinator from the German side is prof. Alberto Abbondandolo. The project is realized at the Faculty of Applied Physics and Mathematics of Gdansk University of Technology and at the Faculty of Mathematics of Ruhr-University of Bochum.