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| **Discipline** | Environmental Engineering |
| **Description of interests and participation in scientific research** | • modeling of pollutant transport in river basins with the use of mathematical tools – Macromodel DNS/SWAT<br>• sources and transport of sediment in catchments - water erosion<br>• quantitative and qualitative analyzes of sediment in the land and river bed phase of the catchment<br>• the impact of climate and land use change on the transport of pollutants in river basin<br>• the impact of particular types of land use on the quality of surface waters |
| **Participation in grants and scientific projects** | • **IDUB AGH UST**, 501.696.7996/L-34, "Development of the Macromodel DNS / SWAT digital platform for modeling the processes of quantitative and qualitative transport of pollutants in a catchment area" (participant)<br>• **PANDa** *(07.2016 – 2018)* – Development and implementation of the Polish Atlas of Rainfall Intensity (PANDa) in the form of an easy-to-use reliable rainfall intensity calculator, available on the Internet *https://retencja.pl/o-nas/projekty-unijne-panda/*<br>• **Bonus Return** *(10.2017 – 12.2017)* **-** Development of the structure and database of the SWAT model for the Słupia river catchment area as part of the RETURN Reducing emissions by turning nutrients and carbon into benefits project. *https://www.bonusreturn.eu/*<br>• **Meteo Risk** *(12.2014 – 12.2015)* – System of numerical forecasting of weather and meteorological hazards |

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| | http://meteorisk.imgw.pl/<br>• **Baltic COMPASS** *(10.2011 – 11.2013)* – comprehensive strategic and investment activities in the sustainable development of agriculture in the Baltic Sea region<br>http://www.balticcompass.org/<br>• **AGROSAFE** *(09.2012 – 02.2013)* **-** Strengthening the awareness of Polish farmers to reduce the eutrophication impact from agriculture – LIFE+<br>• **GLOWASIS** *(01.2011 – 12.2012)* – Global Water Scarcity Information Service verification of mathematical models providing information on water shortages<br>http://glowasis.eu/ |
| **Links** | • https://www.scopus.com/authid/detail.uri?authorId=37762593100<br>• https://www.researchgate.net/profile/Pawel-Wilk-3<br>• https://orcid.org/0000-0003-4302-5059 |