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Academic Degree:	prof. dr hab. inż. (Prof.)
Institute/Department:	Department of Applied Bioeconomy
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UPWr Base of Knowledge - link:	https://bazawiedzy.upwr.edu.pl/info/author/UPWr9a785c66df034fa586ba0e4b3c094682?r=author&tab=&title=Profil%2Bosoby%2B%25E2%2580%2593%2BArkadiusz%2BDyjakon%2B%25E2%2580%2593%2BUniwersytet%2BPrzyrodniczy%2Bwe%2BWroc%25C5%2582awiu&lang=pl
Researchgate:	D-4312-2019
Personal website / Working group website:	None
Participation in projects in last 5 years (chronological; with distinction into PI (kierownik) and RF (wykonawca)):	<ol style="list-style-type: none"> 1. Project in the frame of the Interreg Central Europe Programme: Strefowa - Strategies to REduce and Manage FOod WASTE in Central Europe, Contractor, (project: 2016-2019) - RF. 2. Replicable business models for modern rural economies (acronym: Rubizmo - 773621). Project H2020-RUR-2016-2017/H2020-RUR-2017-2. Call topic: RUR-09 "Business models for modern rural economies" - Research and Innovation Action. Project duration 2018-2021. Head of the project at the Wroclaw University of Environmental and Life Sciences - PI 3. Unlocking the community energy potential to support the market uptake of bioenergy heating technologies (acronym: BECoop - 952930). H2020-LC-SC3-2018-2019-2020/H2020-LC-SC3-2020-RES-IA-CSA. Project H2020: Secure, clean and efficient energy, Call topic: Market Uptake support. Project duration 2020-2023. Head of the project at the Wroclaw University of Environmental and Life Sciences - PI 4. Project Erasmus+, Project SOFTEN - Embedding soft skills in stem academic curricula for the transition to sustainable green economy (2022-2025), Coordinator and Head of the project - PI
Do you plan to engage support of second supervisor or auxiliary supervisor?	YES
	Auxiliary supervisor
Name and surname:	Jan den Boer
Academic Degree:	dr inż. (Dr. Eng.)
Faculty, Institute/Department:	Faculty of Environmental Science and Technology, Department of Applied Bioeconomy
e-mail address:	jan.denboer@upwr.edu.pl
ORCID:	0000-0001-6182-6074
UPWr Base of Knowledge - link or most important publications from last 3 year (JCR) / patents from last 3 years (maximum 5):	https://bazawiedzy.upwr.edu.pl/info/author/UPWr67a9b358dccc941ed8cd537c48bfe238b?r=author&tab=&title=Profil%2Bosoby%2B%25E2%2580%2593%2BJan%2BDen%2BBoer%2B%25E2%2580%2593%2BUniwersytet%2BPrzyrodniczy%2Bwe%2BWroc%25C5%2582awiu&lang=pl
Researchgate:	https://www.researchgate.net/profile/Jan_Den_Boer2
Personal website / Working group website:	https://www.upwr.edu.pl/badania/50293/zespol_waloryzacji_odpadow_i_biomasy_wbvq.html
Projects in last 5 years (chronological; with distinction into PI (kierownik) and RF (wykonawca)):	<ol style="list-style-type: none"> 1. Project in the frame of the Interreg Central Europe Programme: Strefowa - Strategies to REduce and Manage FOod WASTE in Central Europe, Head of the project at the Wroclaw University of Environmental and Life Sciences, (project: 2016-2019) - PI 2. NCBiR Biostrateg III: Opracowanie innowacyjnej metody oczyszczania powietrza w suszarniach ziarna zbóż i nasion wraz z ograniczeniem emisji zanieczyszczeń. (project 2018-2021). Contractor - RF 3. Replicable business models for modern rural economies (acronym: Rubizmo - 773621). Project H2020-RUR-2016-2017/H2020-RUR-2017-2. Call topic: RUR-09 "Business models for modern rural economies" - Research and Innovation Action. Project duration 2018-2021. Contractor - RF 4. ARIMR: PROW 2014-2020: „Zaimplementowanie i dostosowanie do warunków klimatyczno-glebowych Polski innowacyjnej technologii produkcji owoców z zamkniętym systemem nawadniania i biofortyfikacji jodem i selenem na przykładzie żurawiny” (project 2018-2020) Contractor - RF 5. Interreg Central Europe: Circular solutions for keeping food waste out of Central Europe's schools (CIRCUS, CE0200718) - (2024-2026) - PI
PhD topic:	Food waste: monitoring, prevention, treatment and environmental impact assessment
Research discipline in Doctoral School:	Environmental Engineering, Mining and Energy
Short description of the research problem to be solved in the PhD (minimum 1000 characters):	<p>Food waste is becoming an increasingly important challenge in the scientific and social spheres, as evidenced by the European Union's 'From Field to Fork' strategy. Food waste is generated along the food value chain, from the producer through trade, hospitality sector, schools to the household. Currently, Poland lacks reliable data on the amounts and compositions of food waste generated along the whole value chain and the impact of its use on the environment.</p> <p>The aim of the research will be to determine the level of food waste generation at various stages of the food value chain, and then (options):</p> <ul style="list-style-type: none"> - making a forecast of food waste levels until 2050, - determining the possibilities of preventing food waste focusing on both technological solutions and social behaviour changes, - research using innovative methods of processing food waste, such as biorefineries or bioenergy production, - carrying out an analysis of the environmental impact of food waste using the LCA (Life Cycle Assessment) method.
Professional skills for PhD candidate (e.g. master program, specializations, softwares, language, analytical techniques, minimum 500 characters):	A doctoral candidate should have research experience in the monitoring or processing of food waste or other bio-waste. Should have education related to waste management, environmental engineering or process engineering. He should have the ability to conduct research on a laboratory scale and be familiar with the basic research and analytical equipment related to conducting basic physico-chemical analyzes of biomass. Scientific achievements in the form of scientific publications in journals from the JCR list and participation in international conferences are required. Commitment and readiness to undertake internships in a foreign research center are recommended. The candidate's scientific interests should be related to food waste, its practical processing in technical devices and life cycle assessment. The candidate should have at least B2 level of knowledge of English.
a) Project title:	Circular solutions for keeping food waste out of Central Europe's schools
b) Agreement number:	CE0200718
c) Number of months in the project to support PhD student (in months; starting from 1st of October 2024):	24
Project website:	https://www.interreg-central.eu/second-call-results/