Candidate supervisor's information summary form
maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: Professor Magdalena Daria Vaverková	
Academic discipline/disciplines	civil engineering, geodesy and transport (CEGT) environmental engineering, mining and energy (EEME
Professional development (degrees and titles) in chronological order	Professor
Most important publications/ patents in the last 3 years (maximum 10)	**Vaverková M.D.,** Winkler J., Uldrijan D., Ogrodnik P., Vespalcová T., Aleksiejuk-Gawron J., Adamcová D., Koda E. Fire hazard associated with different types of photovoltaic power plants: effect of vegetation management. Renewable and Sustainable Energy Reviews. 162, 112491, **2022**. Koda, E., Osiński. P., Podlasek, A., Markiewicz, A., Winkler, J., **Vaverková, M.D.** Geoenvironmental approaches in an old municipal waste landfill reclamation process: Expectations vs reality. Soils and Foundations. **2023**, 63, 101273. **VAVERKOVÁ M.D.**, MATSUI Y., VAVERKA I. Mottainai in Civil Engineering - A Message from Japan. *Acta Scientiarum Polonorum Architectura* **2023,** 22, 205-217. Podlasek, A., **Vaverková, M.D.,** Koda, E., Jakimiuk, A., Martínez Barroso, P. Characteristics and pollution potential of leachate from municipal solid waste landfills: Practical examples from Poland and the Czech Republic and a comprehensive evaluation in a global context. Journal of Environmental Management. 332, **2023**, 117328. **Vaverková, M.D.,** Koda, E. Why landfill deposits are a distinguishing feature of the Anthropocene. The Anthropocene Review 2023, 1-11. **Vaverková, M.D.**, Paleologos, E.K., Goli, V.S.N.S., Koda, E., Mohammad, A., Podlasek, A., Winkler, J., Jakimiuk, A., Černý, M. And Singh, D.N. Landfills' environmental impacts: perspectives on biomonitoring. Environmental Geotechnics, **2023**, 1-11. **Vaverková, M. D.,** Polak, J., Kurcjusz, M., Jena, M. K., Murali, A. P., Nair, S. S., ... & Franc-Dąbrowska, J. Enhancing Sustainable Development Through Interdisciplinary Collaboration: Insights From Diverse Fields. Sustainable Development. **2024**. **Vaverková, M.D.** Revisiting ecomodernism: Incorporating the role, of artificial intelligence, in responding to the environmental crisis. The Anthropocene Review, 12(3), 542-547. **Vaverková, M. D.**, Kousal, M., Kosakiewicz, M., Krysińska, K., & Winkler, J. (**2026**). Agrivoltaics for sustainable land use: A critical review of synergistic and antagonistic effects. Renewable and Sustainable Energy Reviews, 226, 116482.

Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	Ing. Veronika Petraková "Possible application of bioindicators for landfill monitoring": date of completion of the doctoral thesis: 26.11.2015, MENDELU Ing. Máxianová Alžběta "Analysis and optimization of the composting process of biodegradable kitchen and restaurant waste": date of completion of the doctoral thesis: 06.10.2022, MENDELU Ing. Zloch Jan "Environmental hazards associated with waste disposal on the example of a selected municipal landfill": date of completion of the doctoral thesis: 25.10.2023, MENDELU Ing. Petra Martínez Barroso "The impact of forest fires and post-fire reclamation: research into an effective soil recovery tool": doctoral dissertation completion date: 25.10.2023, MENDELU M.Sc. Eng. Aleksandra Jakimiuk „The impact of technical methods of covering and reclamation of a landfill on selected environmental components": Institute of Civil Engineering, 2025, doctoral dissertation completion date: 29-10-2025
Achievements in the area of projects/grants (in the last 5 years)	**2020-2023:** MŠMT – VES 20 INTER-COST, Fire effects on soils **2018-2023:** COST (European Cooperation in Science and Technology) Fire in the Earth System: Science & Society (FIRElinks) **2021-2023:** WITEA-ID – KA226 – Partnerships for Digital Education Readiness, Weeks of International Teaching – Inclusive and Digital **2021-2023:** AESOP4FOOD – Erasmus+ project (2021-1-NL01 KA220-HED-000023116) Action for Education, Spatial Organisation and Planning for Sustainable Food **2021-2025:** COST (European Cooperation in Science and Technology) Cross-border transfer and development of sustainable resource recovery strategies towards zero waste (FULLRECO4US)
Subject area of the research project for which the candidate student is being recruited	Environmental risks associated with municipal solid waste treatment and disposal. Environmental impact of municipal waste landfills. Sustainable waste management/Sustainability in civil engineering. Circular economy strategies for photovoltaic and environmental Impact. From Brownfields to Brightfields: Assessing the Feasibility and Environmental Impacts of Photovoltaic Panel Installations on Closed Landfill Sites.
<u>Contact details:</u> Institute E-mail address Telephone number	Warsaw University of Life Sciences (SGGW) Institute of Civil Engineering, Department of Sustainable Construction and Geodesy magdalena_vaverkova@sggw.edu.pl , 22 59 35360