

**Candidate supervisor's information summary form**

maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: Magdalena Vaverková, DSc, Professor	
Scientific discipline/ disciplines	civil engineering, geodesy and transport (CEGT) environmental engineering, mining and energy (EEME)
Professional development (degrees and titles) in chronological order	Associate Professor
Most important publications/ patents in the last 3 years (maximum 10)	<p><b>Vaverková M.D.</b>, Paleologos E.K., Dominijanni A., Koda E., Tang C-S., Wdowska M., Li Q., Guarena N., Mohamed A.M.O., Vieira C.S., Manassero M., O'Kelly B.C., Xie Q., Win Bo M., Adamcová D., Podlasek A., Anand U.M., Mohammad A., Goli V.S.N.S., Kuntikana G., Palmeira E.M., Pathak S., Singh D.N. Municipal Solid Waste Management under COVID-19: Challenges and Recommendations. <i>Environmental Geotechnics</i>. 2021, 8(3), 217-232.</p> <p><b>Vaverková M.D.</b>, Paleologos E.K., Adamcová D., Podlasek A., Pasternak G., Červenková J., Skutnik Z., Koda E., Winkler J. Municipal solid waste landfill: Evidence of the effect of applied landfill management on vegetation composition. <i>Waste Management &amp; Research</i>. 1–10, 2022.</p> <p><b>Vaverková M.D.</b>, 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. <i>Renewable and Sustainable Energy Reviews</i>. 162, 112491, 2022.</p> <p>Winkler, J., Matsui, Y., Filla, J., Vykýdalová, L., Jiroušek, M., <b>Vaverková, M.D.</b> Responses of synanthropic vegetation to composting facility. <i>Science of The Total Environment</i>. 2023. 859, Part 1, 160160.</p> <p>Koda, E., Osiński. P., Podlasek, A., Markiewicz, A., Winkler, J., <b>Vaverková, M.D.</b> Geoenvironmental approaches in an old municipal waste landfill reclamation process: Expectations vs reality. <i>Soils and Foundations</i>. 2023, 63, 101273.</p> <p>Podlasek, A., <b>Vaverková, M.D.</b>, 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. <i>Journal of Environmental Management</i>. 332, 2023, 117328.</p> <p><b>Vaverková, M.D.</b>, Koda, E. Why landfill deposits are a distinguishing feature of the Anthropocene. <i>The Anthropocene Review</i> 2023, 1-11.</p> <p>Jakimiuk A., Matsui Y., Podlasek A., Koda E., Goli V.S.N.S., Voběrkova S., Singh D.N., <b>Vaverková, M.D.</b> Closing the Loop: A Case Study on Pathways for Promoting Sustainable Waste Management on University Campuses. <i>Science of the Total Environment</i>, 2023, 892,164349.</p>

	<p><b>Vaverková, M.D.</b>, 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.</p> <p>Winkler, J., <b>Vaverková, M.D.</b>, Koda, E. The path of human civilization in the Anthropocene: Sustainable growth or sustainable development? The Anthropocene Review. 2023, 0(0). ISSN: 2053-0196.</p>
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral programmes/procedures) in chronological order	<p>Ing. Veronika Petraková "Possible application of bioindicators for landfill monitoring": date of completion of the doctoral thesis: 26.11.2015, MENDEL</p> <p>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</p> <p>Eng. 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</p> <p>Eng. 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</p>
Project/grants achievements (in the last 10 years)	<p><b>2020-2023:</b> MŠMT – VES 20 INTER-COST, Fire effects on soils</p> <p><b>2018-2023:</b> COST (European Cooperation in Science and Technology) Fire in the Earth System: Science &amp; Society (FIRElinks)</p> <p><b>2021-2023:</b> WITEA-ID – KA226 – Partnerships for Digital Education Readiness, Weeks of International Teaching – Inclusive and Digital</p> <p><b>2021-2023:</b> AESOP4FOOD – Erasmus+ project (2021-1-NL01 KA220-HED-000023116) Action for Education, Spatial Organisation and Planning for Sustainable Food</p> <p><b>2021-2025:</b> COST (European Cooperation in Science and Technology) Cross-border transfer and development of sustainable resource recovery strategies towards zero waste (FULLRECO4US)</p>
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<p>Environmental risks associated with municipal solid waste treatment and disposal.</p> <p>Environmental impact of municipal waste landfills.</p> <p>Analysis and optimization of the composting process.</p> <p>Sustainable waste management/Sustainability in civil engineering.</p>
<p><u>Contact details:</u></p> <p>Institute</p> <p>E-mail address</p> <p>Tel.</p>	<p>Warsaw University of Life Sciences (SGGW)</p> <p>Department of Revitalization and Architecture</p> <p>Institute of Civil Engineering</p> <p>magdalena_vaverkova@sggw.edu.pl</p> <p>22 59 35360</p>