

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

Name and surname, degree, title: Yuliia Trach	
Academic discipline/disciplines	civil engineering, geodesy and transport (CEGT)
Professional development (degrees and titles) in chronological order	
Most important publications/ patents in the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. Trach Y., Melnychuk V., Trach R. Removal of cationic and anionic pollutants from water solutions using Ukrainian limestones: a comparative analysis, <i>Desalination and Water Treatment</i>, Taylor & Francis, vol. 275, 2022, s. 24-34. 2. Trach Y., Chernyshev D., Biedunkova O., Moshynskiy V., Trach R., Statnyk I. Modeling of Water Quality in West Ukrainian Rivers Based on Fluctuating Asymmetry of the Fish Population, <i>Water</i>, MDPI, vol. 14, nr 21, 2022, 3511, s. 1-20. 3. Trach R., Trach Y., Kiersnowska A., Markiewicz A., Lendo-Siwicka M., Rusakov K. A Study of Assessment and Prediction of Water Quality Index Using Fuzzy Logic and ANN Models, <i>Sustainability</i>, MDPI, vol. 14, nr 9, 2022, 5656, s. 1-19. 4. Trach Y., Bujakowski F., Koda E., Mazur Ł., Nejbert K., Podlasek A., Vaverková M. Characterization of adsorbents from Ukrainian kaolinite clay for the sorption of nickel: insight and practical application for water treatment in conditions of economic constraints, <i>Desalination and Water Treatment</i>, Taylor & Francis, vol. 278, 2022, s. 1-12. 5. Kuznietsov P., Biedunkova O., Trach Y. Monitoring of Phosphorus Compounds in the Influence Zone Affected by Nuclear Power Plant Water Discharge in the Styr River (Western Ukraine): Case Study, <i>Sustainability</i>, MDPI, vol. 15, nr 23, 2023, 16316, s. 1-16. 6. Trach Y., Melnychuk V., Stadnyk O., Trach R., Bujakowski F., Kiersnowska A., Rutkowska G., Skakun L., Szer J., Koda E. The Possibility of Implementation of West Ukrainian Paleogene Glauconite–Quartz Sands in the Building Industry: A Case Study, <i>Sustainability</i>, MDPI, vol. 15, nr 2, 2023, 1489, s. 1-22. 7. Samchenko D., Kochetov G., Trach Y., Chernyshev D., Kravchuk A. Influence of Technological Factors on the Formation and Transformation of Iron-Containing Phases in the Process of Ferritization of Exhausted Etching Solutions, <i>Water</i>, MDPI AG, vol. 16, nr 8, 2024, 1085, s. 1-16.

	8. Trach Y., Trach R., Kuznietsov P., Pryshchepa A., Biedunkova O., Kiersnowska A., Statnyk I. Predicting the Influence of Ammonium Toxicity Levels in Water Using Fuzzy Logic and ANN Models, Sustainability, MDPI, 2024 , s. 1-21.
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	
Achievements in the area of projects/grants (in the last 5 years)	2023-2024: Analysis and research on the possibilities of using calcium-based concrete mattresses in environmental technologies. National Science Centre, MINIATURA, Project Number 2023/07/X/ST10/00662
Subject area of the research project for which the candidate student is being recruited	Applications of mining waste as reactive materials for environmental protection and construction industry.
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