

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

Name and surname, degree, title: Michał Brach, PhD	
Discipline/ disciplines of science	Forest Sciences
Professional development (degrees and titles) in chronological order	<ol style="list-style-type: none"> 1. Master engineer in forestry, Forestry Faculty, Warsaw University of Life Sciences, 1998 2. Doctor of forestry sciences in the field of forestry, Forestry Faculty, Warsaw University of Life Sciences, 2008 3. Habilitated doctor in the field of agricultural sciences and forest sciences, Forestry Faculty, Warsaw University of Life Sciences, 2019
Most important publications/patens over the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. Brach. M, Wężyk P., Onoszko K. 2021. Assessment of remote sensing data in determining the spatial elements of patch cutting. <i>Sylvan</i> 165 (5): 379-391. 2. Brach, M. 2022. Rapid Static Positioning Using a Four System GNSS Receivers in the Forest Environment. <i>Forests</i> 13(1) 45. 1-11. 3. Brach M., Gašior J. 2022. Usage of the low cost unmanned aerial vehicle in the master map verification process for selected classes. <i>Przegląd Geodezyjny</i>, Nr 1/2022: 14-17. 4. Brach M., Tracz W., Krok G., Gašior J. 2023. Feasibility of Low-Cost LiDAR Scanner Implementation in Forest Sampling Techniques. <i>Forests</i> 14(4) 706. 1-16.
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	<p>Auxiliary promoter of PhD thesis Addo Koratenga entitled: "Assessment of forest cover and land use change in Ghana as a part of monitoring system in REDD mechanism" defended in 2015.</p> <p>Promoter of PhD thesis Piotr Młynarczyk entitled: "Cadastral changes in the State Forests National Forest Holding from 1996 to 2009"</p>
Project/grants achievements (from the last 10 years)	<ol style="list-style-type: none"> 1. The relationship of morphodynamics of the floodplain with the distribution of heavy metals of anthropogenic origin in contemporary alluvial of the Central Vistula on the section from Sulejów to Kazimierz Dolny. Research period: February 1, 2013 - January 31, 2016. Subject supervisor: dr hab. Ewa Falkowska. NCN 012/05 / B / ST10 / 00931. Role: the Contractor. 2. Influence of forest environment on the variability of the multipath satellite navigation signal phenomenon. Task carried out under the BIOSTRATEG project co-financed by

	the National Centre for Research and Development, under the programme "Environment, Agriculture and Forestry", Task. BIOSTRATEG1/267755/4/NCBR/2015.
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<ol style="list-style-type: none"> 1. Monitoring forest changes by unmanned aerial platforms with the use of various types of remote sensing sensors. 2. Variability of multipath effect of GNSS satellite signals in a forest environment. 3. Methods of areas management which are in direct border contact with valuable nature areas as a tool to reduce anthropopressure.
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