

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., Stereńczak K., Bolibok L., Kwaśny Ł., Krok G., Laszkowski M. 2019. Impacts of Forest Environments on Variation in the Multipath Phenomenon of Satellite Navigation Signals. <i>Folia Forestalia Polonica, Series A – Forestry</i>, 2019, Vol. 61 (1): 3–21. 2. Brach M., Chan JC-W., Szymanski P. 2019. Accuracy assessment of different photogrammetric software for processing data from low-cost UAV platforms in forest conditions. <i>iForest</i> 12: 435-441. 3. Bolibok L., Brach M. 2020. Application of LiDAR Data for the Modeling of Solar Radiation in Forest Artificial Gaps—A Case Study. <i>Forests</i>, 11, 821.
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	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
Project/grants achievements (from the last 10 years)	<ol style="list-style-type: none"> 1. Positioning accuracy analysis of GNSS receiver in a forest environment. Research interval: 17.09.2009 - 16.05.2011. Project supervisor: Michał Brach, PhD. Performers: M. Brach, K. Będkowski, K. Stereńczak. KBN N N309 114137. Role: project manager and main contractor. 2. 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.

	<p>“Remote sensing based assessment of woody biomass and carbon storage in forests”. Project REMBIOFOR is co-financed by the National Centre for Research and Development, in the Biostrateg Program „Natural environment, agriculture and forestry” in accordance to the contract number BIOSTRATEG1/267755/4/NCBR/2015. Role: the Contractor.</p>
<p>Topic – research problem – for which the candidate supervisor seeks a doctoral student</p>	<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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