

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

Name and surname, degree, title: Urszula Zajączkowska, Ph.D., D.Sc., Associate Professor	
Discipline/ disciplines of science	Forestry, Biology
Professional development (degrees and titles) in chronological order	2001 MSc in Forestry 2004 PhD in Forestry 2017 DSc in Forestry 2021 Professor of Warsaw University of Life Sciences-SGGW
Most important publications/patens over the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. Zajączkowska U., Kasprzak W., Nałęcz M. 2019. Transitions in the nutations trajectory geometry in peppermint (<i>Mentha x piperita</i> L.) with respect to lunisolar acceleration. <i>Plant Biology</i> 21(1): 133-141. 2. Zajączkowska U., Kaczmarczyk K., Liana J. 2019. Birch sap exudation: influence of tree positions in a forest stand on birch sap production, trunk wood anatomy and radial bending strength. <i>Silva Fennica</i> 53(2) DOI: 10.14214/sf.10048. 3. Zajączkowska U., Piątkowski M., Dołkin-Lewko A., Buraczyk W. 2020. Zróżnicowanie struktury igieł polskich populacji sosny zwyczajnej na powierzchni doświadczalnej w LZD w Rogowie. <i>Sylvan</i> 164(10): 842-849. DOI : 10.26202/sylvan.2020051 4. Zajączkowska U., Bożena Denisow B., Łotocka B., Alicja Dołkin-Lewko A., Monika Rakoczy-Trojanowska M. 2021. Spikelet movements, anther extrusion and pollen production in wheat cultivars with contrasting tendencies to cleistogamy. <i>BMC Plant Biology</i> DOI: 10.1186/s12870-021-02917-7
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	So far, I have not served as a supervisor of the defended doctoral dissertation. Currently (from 2019) I am a supervisor of one student of doctoral studies at Warsaw University of Life Sciences - SGGW
Project/grants achievements (from the last 10 years)	1. Seventh Framework Programme (FP7) European Commission: Trees4Future Transnational Access Programme: Designing trees for the future (Grant agreement no. 284181 "Trees4Future"). Under this program,

	<p>she implemented the project: "Variation of xylem properties during gravitropic response of Norway spruce (<i>Picea abies</i>) main stem with respect to spatial distribution of compression wood (2013)</p> <p>2. Biostrateg An integrated strategy for the reactivation of Polish heterosis wheat cultivation. Participation in the task of WP 1.2. WP1.2</p> <p>Characterization of the structure and functionality of wheat spikelets in order to identification of features favouring chasmogamous pollination. (2018-2019)</p>
<p>Topic – research problem – for which the candidate supervisor seeks a doctoral student</p>	<p>Thematic scope of the supervisor's research:</p> <ol style="list-style-type: none"> 1. Processes of tissue and cell regeneration in forest trees; 2. Plant responses to physical factors with particular regard to gravity; 3. Biomechanical aspects of plant functioning. <p>Studies on the various aspects of forest plant biology are comprehensive and interdisciplinary. They are conducted with the use of optical and electron microscopy, analytical computer techniques for the analysis of digital microscopic images, techniques of analysing the growth and movement of plants by means of time-lapse films, various techniques used in the study of material mechanics, among others, indenter, wind tunnels, 3D image correlation to perform measurements of 3D deformation and strain of plant tissues and mathematical modelling methods</p> <p>. A doctoral student's research problem may concern selected issues falling within each of the abovementioned thematic ranges of the supervisor's scientific activity</p>
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