

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

Name and surname, degree, title: Axel Schwerk, prof. dr hab.	
Academic discipline/disciplines	<ol style="list-style-type: none"> 1. Environmental engineering, mining and energy 2. Forest sciences
Professional development (degrees and titles) in chronological order	<p>Mgr. (Dipl.-Biol.), Ruhr-University Bochum (Germany), 1993</p> <p>Dr rer. Nat., Ruhr-University Bochum (Germany), 1997</p> <p>Dr hab. of forest sciences, Forest Research Institute, 2009</p> <p>Prof. of agricultural sciences, 2020</p>
Most important publications/patents in the last 3 years (maximum 10)	<p>Schwerk, A., Dymitryszyn, I., Jójczyk, A., Kondras, M., Szyszko-Podgórska, K., & Szyszko, J. (2025): Pattern in population dynamics of the Nun moth (<i>Lymantria monacha</i> L.) based on long-term studies in North-West Poland. <i>Forests</i> 16, 1852.</p> <p>Łowicki, D., Fornal-Pieniak, B. & Schwerk, A. (2025): Urban greenery services for noise attenuation, pollutant filtration, and temperature lowering: Supply potential, demand, and budgets in Poznań, Poland. <i>Ecosyst. Serv.</i> 73, 101713.</p> <p>Białowicz, J. Schwerk, A., Dymitryszyn, I., Olszewski, A. & Białowicz, J. S. (2024): The impact of land cover on nest occupancy of the White stork (<i>Ciconia ciconia</i> (L.)): A case study of Kampinos forest, 2006–2018. <i>Earth</i> 5, 336–353.</p> <p>Sikorski, P., Archiciński, P., Ciężkowski, W., Kościelny, M., Kościelna, A. & Schwerk, A. (2023): Forest ecosystem disturbance affects tree dieback from Ips bark beetles, evidence from UAV multispectral mapping. <i>Sylvan</i> 167, 13-25.</p> <p>Gawryszewska, B. J., Mysza, I., Banaszek, M. & Schwerk, A. (2023): Periurban streetscape - vernacular front gardens and their potential to provide ecosystem services. A case study of Warsaw, Poland. <i>Sustainability</i> 15, 2450.</p>
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	<p>Armin Schreiner: Succession development in forest habitats of the Ruhr valley (Germany) in consideration of ecological aspects and biotope conservation using the example of epigaeic carabid beetles (Coleoptera: Carabidae) as compared to Polish habitats, defended, 2013</p> <p>Adam Kwiatkowski: Dynamika zgrupowań biegaczowatych na siedliskach wilgotnych i bagiennych w Puszczy Knyszyńskiej, defended, 2013</p>

	<p>Paweł Sałek: Akumulacja węgla w wierzchnich warstwach zalesionych gruntów porolnych jako element mitygacji zmian klimatycznych przez ekosystemy leśne, defended, 2023</p> <p>Joanna Białowicz: Bocian biały (<i>Cicornia cicornia</i> (L.)) jako wskaźnik jakości i zmian środowiska oraz krajobrazu, defended, 2024</p>
<p>Achievements in the area of projects/grants (in the last 5 years)</p>	<p>2017-2022: Generalna Dyrekcja PGL Lasy Państwowe projekt nr. OR.271.3.10.2.2018 „Kompleksowy projekt ochrony żubra przez Lasy Państwowe, zadanie dt. wszechstronny monitoring populacji i siedliska żubra”. (contractor)</p> <p>2018-2021: Generalna Dyrekcja PGL Lasy Państwowe projekt nr. OR.271.3.5.2018 „Badanie wybranych grup owadów na stałych powierzchniach prognostycznych oraz ocena i prognoza stanu zagrożenia lasu”. (contractor)</p> <p>2020-2023: ERASMUS+ project 610383-EPP-1-2019-1-DE-EPPKA2-CBHE-JP „Enhancement of Postgraduate Studies on Sustainable Agriculture and Future Farming Systems (SAGRIS)”. (manager)</p> <p>2022-2025: Generalna Dyrekcja PGL Lasy Państwowe project nr. MZ-271.3.8.2022 „Wpływ gospodarki leśnej na zwiększanie efektywności pochłaniania CO₂ przez gleby i ochronę różnorodności biologicznej”. (manager)</p> <p>From 2021: Grant Horizon 2020 no 101036337 MERLIN „Mainstreaming Ecological Restoration of freshwater-related ecosystems in a Landscape context: INnovation, upscaling and transformation”. (contractor)</p> <p>From 2025: Grant Horizon 2020 no 101219060 ForPeat „Forest peatland ecosystem assessment and targeted management for enhanced carbon sequestration, biodiversity and water quality”. (contractor)</p>
<p>Subject area of the research project for which the candidate student is being recruited</p>	<p>Landscape ecology, population ecology, succession processes on degraded areas based on inventories of carabid beetles and/or landscape species, landscape management under consideration of conservation of biological diversity, sustainable development.</p>
<p><u>Contact details:</u> Institute E-mail address Telephone number</p>	<p>Centre for Climate Research – SGGW axel_schwerk@sggw.edu.pl +48 22 59 32225</p>