

**Research topics in the discipline of Earth and Environmental Sciences  
in the academic year 2020/2021**

<b>Lp.</b>	<b>PhD Supervisor</b>	<b>ORCID</b>	<b>Contact</b>	<b>Research topics</b>
1	<b>prof. dr hab. Marek Jóźwiak</b>	0000-0003-3628-8563	marek.jozwiak@ujk.edu.pl	<ol style="list-style-type: none"> <li><i>1. Wind erosion of soils and possibilities of its prevention</i></li> <li><i>2. Water erosion of soils and possibilities of its prevention</i></li> <li><i>3. Chemical denudation in geoecosystems</i></li> <li><i>4. Functioning of caves under anthropogenic stress</i></li> </ol>
2	<b>dr hab. Tadeusz Ciupa, prof. UJK</b>	0000-0002-0387-637X	tadeusz.ciupa@ujk.edu.pl	<ol style="list-style-type: none"> <li><i>1. Natural and anthropogenic factors in energy flow and matter cycling in river watersheds</i></li> <li><i>2. Contemporary changes in the geographical environment</i></li> <li><i>3. Hydrological and anthropogenic processes in urbanized areas</i></li> </ol>
3	<b>dr hab. Maria Górską-Zabielska, prof. UJK</b>	0000-0003-3152-2955	maria.gorska-zabielska@ujk.edu.pl	<ol style="list-style-type: none"> <li><i>1. Impact of environmental conditions on geotourism development – an assessment based on studies of georesources in a selected region</i></li> <li><i>2. Assessment of geodiversity of the Wielkopolska and Kielce regions in the context of geotourism promotion</i></li> <li><i>3. Geological and geomorphological heritage studies using qualitative and quantitative approaches to geodiversity conservation and geosite promotion (in a selected region)</i></li> <li><i>4. Opinion of responders to geotouristic reception area (in a selected region)</i></li> <li><i>5. Postglacial deposits in the Holy Cross Mts region and their areas of origin in Scandinavia</i></li> </ol>

4	<b>dr hab. Tomasz Kalicki, prof. UJK</b>	0000-0002-8421-5660	tomasz.kalicki@ujk.edu.pl	<ol style="list-style-type: none"> <li>1. <i>Evolution of river valleys (in a selected region)</i></li> <li>2. <i>Holocene palaeogeography (in a selected region)</i></li> <li>3. <i>Geoarcheology</i></li> </ol>
5	<b>dr hab. Rafał Kozłowski</b>	0000-0003-1436-6364	rafal.kozlowski@ujk.edu.pl	<ol style="list-style-type: none"> <li>1. <i>Transformation of atmospheric precipitation chemistry in alkaline/acidic emission conditions</i></li> <li>2. <i>Influence of precipitation on spatial variability of selected soil properties</i></li> <li>3. <i>The role of fog precipitation in pollutant deposition</i></li> <li>4. <i>Assessment of lime production and cement industries on the environment using selected geo- and bioindicators</i></li> </ol>
6	<b>dr hab. Małgorzata Ludwikowska-Kędzia</b>	0000-0001-5747-4934	malgorzata.ludwikowska-kedzia@ujk.edu.pl	<ol style="list-style-type: none"> <li>1. <i>Fluvial, periglacial and glacial geomorphology of the Holy Cross Mts</i></li> <li>2. <i>Stratigraphy of Quaternary deposits in the Holy Cross Mts</i></li> <li>3. <i>Significance of environmental factors for geotourism development in the Holy Cross Mts region</i></li> </ol>
7	<b>dr hab. Ewa Nowak</b>	0000-0002-1198-6544	ewa.nowak@ujk.edu.pl	<ol style="list-style-type: none"> <li>1. <i>Application of Data Mining methods to studies on changes in the geographical environment</i></li> <li>2. <i>The use of multi-criteria methods in analysis of land-use changes in selected watersheds</i></li> <li>3. <i>Management of region's value in the environmental and social aspects</i></li> </ol>
8	<b>dr hab. Roman Suligowski</b>	0000-0001-8947-324X	roman.suligowski@ujk.edu.pl	<ol style="list-style-type: none"> <li>1. <i>Temporal and spatial structure of atmospheric precipitation</i></li> <li>2. <i>Touristic values of selected territorial unit</i></li> <li>3. <i>Hydrology of selected territorial unit</i></li> <li>4. <i>Geographic Information Systems (GIS) in practice</i></li> </ol>

9	<b>dr hab. Anna Świercz</b>	0000-0001-6439-4879	anna.swiercz@ujk.edu.pl	<ol style="list-style-type: none"> <li>1. <i>Possibilities of the use of plant bioindicators for assessment of the quality of habitats</i></li> <li>2. <i>Changes in soil cover and trace element migration in areas showing different anthropogenic impact</i></li> <li>3. <i>Assessment of the impact of industry on accumulation of metals in soils and bottom sediments</i></li> </ol>
10	<b>dr hab. Artur Zieliński</b>	0000-0003-1672-7776	artur.zielinski@ujk.edu.pl	<ol style="list-style-type: none"> <li>1. <i>Changes of the environment in the Holy Cross Mts. Region</i></li> <li>2. <i>Extreme precipitation and its effects in the Holy Cross Mts region</i></li> <li>3. <i>Tourism in the Holy Cross Mts region</i></li> </ol>