Thesis topic/research area for SD students (2025/2026 academic year)

no.	name and surname of the supervisor	e-mail	Faculty	thesis topic/research area	suggested title
1	dr inż. arch. Tomasz Zaborowski	t.zaborowski@uw.edu.pl	Faculty of Geography and Regional Studies	sustainability theory, sustainable spatial development, sustainable urban development, integration between planning and transport policy, transit-oriented-development, sustainable transport, international comparative studies on spatial planning related issues, planning legal frameworks, economic planning instruments, market failures, public value capture.	-
2	Dr Ada Górna	ada.gorna@uw.edu.pl	Faculty of Geography and Regional Studies	I am open to supervising theses related to food systems, with a particular focus on sustainable food practices in urban contexts. This includes topics such as urban agriculture, food value chains, and alternative models of food production and distribution.	
3	dr hab. Sylwia Kulczyk, prof. ucz.	skulczyk@uw.edu.pl	Faculty of Geography and Regional Studies	Cultural ecosystem services; sustainable tourism; nature based tourism; management of protected areas; local food systems; nature connectedness; indigenous knowledge as a factor of sustainable development	
4	Dr hab. Agnieszka Dąbrowska, prof. UW	adabrowska@chem.uw.edu.pl	Faculty of Chemistry	This diploma project is based on the collection of visual language tools creatively applied to build a photographic portfolio related to the one of SD related topics.	Engaged Photography – building a visual campaign
5	Dr hab. Agnieszka Dąbrowska, prof. UW	adabrowska@chem.uw.edu.pl	Faculty of Chemistry	This diploma is based on the interdisciplinary research tackling one selected case study related with the anthropogenic pressure. Analyses will include the applied strategies in visual communication of this problem and strategies used for the social awareness building or decreasing.	Visual language in environmental communication – changes and challenges
6	Dr hab. Agnieszka Dąbrowska, prof. UW	adabrowska@chem.uw.edu.pl	Faculty of Chemistry	Research project based on applied spectroscopy and dedicated to ocean lovers. Student will have an opportunity to work with diverse samples (sediments, tissues, mussels, shells, etc.). No previous background in nature science is needed, but in that case the topic is for strongly motivated persons. The final research aim will be constructed together with the interested person depending on their background and interest.	Spectroscopy in Ocean Science
7	Dr hab. Agnieszka Dąbrowska, prof. UW	adabrowska@chem.uw.edu.pl	Faculty of Chemistry	Interdisciplinary topic covering the scientific approach, social science, and aesthetics.	Microplastic and nanoplastic pollution
8	Dr hab. Agnieszka Dąbrowska, prof. UW	adabrowska@chem.uw.edu.pl	Faculty of Chemistry	Within the dissertation the student will have an opportunity to design, conduct and evaluate the ecotoxicological experiment on model species.	Ecotoxicology of microplastic
9	Dr hab. Agnieszka Dąbrowska, prof. UW	adabrowska@chem.uw.edu.pl	Faculty of Chemistry	Project for students related with material science. Toutoring option is possible, so the final topic will be discussed with the interested person. Examples: ghost nets recycling, green nanocomposites, ecotoxicity of emerging materials, other.	Nanocomposites and 2 D materials: beyond graphene
10	Dr hab. Agnieszka Dąbrowska, prof. UW	adabrowska@chem.uw.edu.pl	Faculty of Chemistry	This project is concentrated on the impact of materials available on the market and used in the performative clothes. It aims to study the ageing of synthetic textures from the chemical and physical point of view and correlate it with the possible environmental impact.	Synthetic and outdoor materials and their environmental ageing
11	Dr hab. Inż. Radosław Barczak	r.barczak2@uw.edu.pl	Faculty of Chemistry	Integrating Greenhouse Gas Emission Assessments into Environmental Impact Assessments: Toward a Comprehensive Framework for Climate Mitigation and Adaptation.	
12	Dr hab. Inż. Radosław Barczak	r.barczak2@uw.edu.pl	Faculty of Chemistry	The Exponential Epoch: Analyzing the Interconnected Impacts of Exponential Growth on Global Environmental Degradation	
13	Dr hab. Inż. Radosław Barczak	r.barczak2@uw.edu.pl	Faculty of Chemistry	Analysis of climate change scenarios on changes in the range of odor impact of selected municipal facilities.	
14	Dr hab. Inż. Radosław Barczak	r.barczak2@uw.edu.pl	Faculty of Chemistry	Analysis of climate change forecasts, with particular emphasis on increased heat waves and hot days. Analysis of the increase in emissions of selected odorants relative to temperature. Analysis of the impact of climate change on the increase in emissions of selected odorants.	

15	Dr Tomasz Wyłuda	twyluda@wz.uw.edu.pl	Faculty of Management	Sustainable Finance and Green Banking - possible topics includes: 1. Green Bonds Investing – analyzing yield differences (the "greenium"), risk profiles, and their role in portfolio diversification compared to conventional bonds. 2. Green Bonds Issuance – evaluating the potential for a lower cost of capital for corporations, market demand, and the strictness of use-of-proceeds reporting. 3. Sustainable Investment Funds – comparing the performance, risk-return tradeoff, and capital flows of ESG-focused mutual funds or ETFs versus traditional funds. 4. Green Stocks Performance – analyzing the volatility, long-term returns, and resilience during market shocks of publicly traded companies with high sustainability ratings. 5. Private Equity in Green Projects – assessing valuation methods, capital deployment trends, and expected return rates for investments in climate-tech and the energy transition. 6. Climate Risk Management – measuring the financial impact of physical and transition climate risks on enterprise valuation, asset pricing, and banking credit risk models. 7. Electric Vehicle (EV) Industry Analysis – assessing the financial performance and market valuation of EV manufacturers, analyzing supply chain risks (e.g., battery minerals), and evaluating the impact of government subsidies on profitability. 8. Financing Nuclear Power – analyzing the massive capital requirements, long-term construction risks, cost of capital, and the crucial role of government guarantees or public-private partnerships (PPP) in energy transition. 9. Carbon Pricing (ETS) Costs and Benefits – evaluating the financial burden of emission allowances on carbon-intensive industries versus the economic incentives for green innovation, and analyzing the overall efficiency of the system. 10. Real Cost of Electricity (LCOE) – comparing the Levelized Cost of Energy across different sources (renewables, fossil fuels, nuclear), including hidden costs such as grid integration, subsidies, and environmental externalities. 11. Climate Change Net Costs – estimating the macroeconomic impact of physical climate risks on GDP, comparing the financial burden of adaptation investments versus the cost of inaction for different countries (developed vs. developing). 12. Green Banking – integrating ESG factors into credit risk models, analyzing the financial structure of sustainability-linked loans, and evaluating the impact of green capital requirements on bank profitability.	
16	Dr Zuzanna Kulińska-Kępa	z.kulinska-kepa@uw.edu.pl	Faculty of Law and Administration	An international legal approach to sustainable development, with particular reference to human rights or space law.	
17	Agnieszka Kałmykow-Piwińska	a.kalmykow-piwinska@uw.edu.pl	Faculty of Geology	Renaturalization of river valleys on an example of the…/Morphodynamic conditions and distribution of heavy metals in deposits of the river valleys / Assessment of the river channel morphologic stability / Hydrogenic habitats in the river valleys – their formation against the background of the evolution of the fluvial environment and their protection / Application of GIS methods and aerial photography for the river valleys analysis (morphogenesis of the floodplain, channel morphology changes, identification of the floodplain landforms, identification of the hydrogenic habitats) / Wetlands (Genesis, protection and restoration) / Reclamation, remediation, and renaturalization of the environment	