Candidate supervisor's information summary form

Name and surname, degree, title:	dr hab. Joanna Landmesser-Rusek, prof. SGGW
Academic discipline/disciplines	Economics and finance
Professional development (degrees and titles) in chronological order	1995 - Master's degree, Mathematics, specialization: numerical methods and programming, WNEiZ UMK in Toruń; 1996 - Master's degree, Management and Marketing, scope: quantitative methods in management, WNEiZ UMK in Toruń; 2002 - doctor of economic sciences, UniBw in Munich, Germany (nostrification UMK in Toruń); 2014 - habilitation in economic sciences, in the discipline of economics, WNEiZ UMK in Toruń.
Most important publications/ patents in the last 3 years (maximum 10)	1. Landmesser-Rusek J. (2022): Relationship between the COVID-19 pandemic and currency exchange rates studied by means of the Dynamic Time Warping method, Wiadomości Statystyczne – The Polish Statistician, May, Vol. 67, 5(732), pp. 1-23, DOI: 10.5604/01.3001.0015.8535. 2. Dmytrów K., Bieszk-Stolorz B., Landmesser-Rusek J. (2022): Sustainable Energy in European Countries: Analysis of Sustainable Development Goal 7 Using the Dynamic Time Warping Method, Energies, 15(20), 7756, pp. 1-17, DOI: 10.3390/en15207756. 3. Dudek H., Landmesser-Rusek J. (2023): What explains the differences in material deprivation between rural and urban areas in Poland before and during the COVID-19 pandemic?, Statistics in Transition, 24(4), pp. 37-52, DOI:10.59170/stattrans-2023-050. 4. Beata Bieszk-Stolorz, Joanna Landmesser-Rusek, Iwona Markowicz (2023): Zmiany wzorców wychodzenia z bezrobocia na przykładzie Szczecina, Quantitative Methods in Economics, XXIV(4), pp. 215-228. 5. Andrzejak J., Chmielewski L. J., Landmesser-Rusek J., Orłowski Arkadiusz (2024): The impact of the measure used to calculate the distance between exchange rate time series on the topological structure of the currency network, Entropy, 26(4), 279, pp. 1-17, DOI:10.3390/e26040279. 6. Landmesser-Rusek J., Andrzejak J. (2024): The Topological Structure of the Global Foreign Exchange Market During Crises – Comparative Network Analysis, Optimum.

	Economic Studies, 1(115), pp. 26-44, DOI: 10.15290/oes.2024.01.115.02. 7. Joanna Landmesser-Rusek (2024): Network analysis of the foreign exchange market using minimum spanning trees constructed from the DTW distance measure, Argumenta Oeconomica, 1(52), pp. 56-70, DOI: 10.15611/aoe.2024.1.04. 8. Hanna Dudek, Joanna Landmesser-Rusek (2024): Inability to face unexpected expenses and monetary poverty in Poland: Are these two faces on the same coin? Equilibrium. Quarterly Journal of Economics and Economic Policy, 19(4), pp. 1305–1325, DOI: 10.24136/eq.3049.
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	Supervisor in the doctoral dissertation of Dr. Dominika Urbańczyk (dissertation entitled "Determinants of functioning and survival of enterprises on the example of the Mazovian province", 2022, thesis awarded by the President of the Central Statistical Office).
Achievements in the area of projects/grants (in the last 5 years)	POWR.03.05.00-00-Z033/17-00 „Sukces z natury – kompleksowy program podniesienia jakości zarządzania procesem kształcenia i jakości nauczania SGGW w Warszawie"; 2018-2020; faculty coordinator of the task "New study programs" (Informatics and Econometrics - new English-language specialization Big Data Analytics). DNK/SP/548725/2022 „Klasyfikacja i analiza danych - teoria i zastosowania, SKAD 2022", project coordinator, 2022-2023.
Subject area of the research project for which the candidate student is being recruited	Network analysis for financial markets (e.g., topological properties of networks of links between indices in the stock market). Using machine learning methods for this purpose, such as graph neural networks (GNN).
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