

Prospective supervisor's form

Name of the supervisor: Ewa Lechman

Academic title: PhD Habilitated

Orcid ID number: <https://orcid.org/0000-0000-0003-1718-7134>

Gdańsk University of Technology Faculty of Management and Economics

Department of Economics

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Discipline: economics and finance [EiF] none

Optional

Key words (obligatory four key words describing research interests / expertise):

ICT

digital economy

technology diffusion

economic development

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 25

2. Citations excluding self-citations WoS 31 Scopus 91

3. Hirsch index WoS 2 Scopus 4

1. The number of PhD students who have graduated under your supervision: 0

2. The number of PhD students currently supervised:

a. within the current doctoral school 1

b. within doctoral studies (previous system) 1

3. Are you currently accepting new PhD students:

a. Polish Yes/No Yes

b. Foreign Yes/No Yes

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Research interests or topics offered for PhD research (no more than 2000 characters)ⁱⁱ

My major research interests generally concentrate on issues related to the process of diffusion and adoption of Digital Technologies and their economy-wide consequences.

More specifically, my major research fields are following:

1. ICT as disruptive technologies
2. ICT diffusion trajectories, including mathematical models of diffusion
3. FinTech aspects
4. Financial innovations and financial markets asymmetries
5. ICT impact on economy, e.g. productivity, labor and skills, income inequality
6. Structural changes generated by Digital Technologies
7. Labor force enhancement through ICT adoption
8. Developing economies problems
9. Network effects and information asymmetries

For research I basically use quantitative analytical methods.

Topics offered for PhD students would preferably be consistent with the foregoing major research fields. Still I am open to consider different macroeconomic and Digital Technology-related topics.

Funding or special equipment needed to carry out a PhD project ⁱⁱⁱ:

1. Is funding available for experimental work: *Yes/No/not needed*

2. Is the equipment needed to complete a PhD project available in your lab/department: *Yes/No/not needed*

Most important publications – no more than 5 published after 1.01.2018

No	Authors/title/journal	Number of points according to the current list of the Ministry of Science and Higher Education	Publication year
1.	Marszk, A., & Lechman, E. (2018). Tracing financial innovation diffusion and substitution trajectories. Recent evidence on exchange-traded funds in Japan and South Korea. <i>Technological Forecasting and Social Change</i> , 133, 51-71.	140, IF=4.04	2018
2.	Marszk, A., & Lechman, E. (2019). New technologies and diffusion of innovative financial products: Evidence on exchange-traded funds in selected emerging and developed economies. <i>Journal of Macroeconomics</i> , 62.	70, IF=1.2	2019

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3.	Lechman, E., & Marszk, A. (2019). ICT-Driven Economic and Financial Development: Analyses of European Countries. Academic Press/ Elsevier	300	2019
4.	Marszk, A., & Lechman, E. (2019). Exchange-traded funds in Europe. Academic Press/Elsevier	300	2019
5.	Lechman, E., & Popowska, M. (2020). Society and Technology: Opportunities and Challenges. Routledge London	150	2020

Most recent externally funded projects you were involved in – no more than 3

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Years	Role in the project ^{iv}
1.	ICT diffusion trajectories - determinants and implications for economic development. New theoretical approach and empirical analysis results. Funding Institution: National Research Center	2015-2021	PI
2.	Exchange traded funds as innovative products on financial markets: development factors and impact on financial systems. Experiences of European countries, implications for Poland. Funding Institution: National Research Center	2015-2021	R
3.	Reshaping financial systems - identifying the role of ICT in diffusion of financial innovations. Recent evidence from European countries. Funding Institution - CERGE-EI Global Development Network (international research grant)	2016-2018	PI

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Additional relevant information – (no more than 1600 characters)^v



- ⁱ You may select up to two disciplines out of 12 disciplines represented in the Doctoral School
- ⁱⁱ Observe the limit of not more than 2000 characters
- ⁱⁱⁱ Leave only one answer
- ^{iv} Select the role in the project: PI stands for principal investigator (refers to the holder of an independent grant and the lead researcher for the grant project), Co-I for co-investigator (Co-I assists the principal investigator in the management and leadership of the research project), R for researcher
- ^v Add any other relevant information e.g. awards for PhD students whom you supervised (no more than 1600 characters)