Qualifications of the individual for defining area of expertise

Name/ Birth year	Ludwin Molina Arias / 1994
Title (year degree	MSc. ME./BME. (2019) / assistant professor
obtained) / Prof.	
status	
Address	AGH University of Krakow,
	30, Mickiewicza Ave. 30-059 Krakow, Poland
Awag of own outigo?	arias(@agn.edu.pi
Area of experiise	numan motion analysis, numan locomotion, modelling of dynamic systems,
Dolougut (host)	mechanical design and prototyping, biomechanical data analysis
publications ³	1. L. Molina Arias, J. Iwaniec and M. Iwaniec. <i>Modeling and Analysis of the Power</i> <i>Conditioning Circuit for an Electromagnetic Human Walking-Induced Energy</i> <i>Harvester</i> . Energies, vol. 14, 2021, https://doi.org/10.3390/en14123367. IF: 3
	2. L. Molina Arias, M. Iwaniec, P. Pirowska, M. Smoleń and P. Augustyniak. <i>Head and voice-controlled human-machine interface system for transhumeral prosthesis</i> . Electronics, vol. 12, 2023, <u>https://doi.org/10.3390/electronics12234770</u> . IF: 2,6
	3. M. Iwaniec, L. Molina Arias and J. Iwaniec. <i>Characterization of human gait by means of the trajectory of the instantaneous centers of rotation of lower limb segments in the sagittal plane</i> . IEEE Access, vol. 13, 2025, <u>https://doi.org/10.1109/ACCESS.2025.3539452</u> . IF: 3,4
	 L. Molina Arias, M. Iwaniec and J. Iwaniec. Investigation into the Effect of Joint Clearance on the Dynamics of a Biomechanical Energy Harvesting System. IEEE Access, vol. 11, 2023, <u>https://doi.org/10.1109/ACCESS.2023.3254207</u>. IF: 3,4
Publications	Google Scholar: Publications: 9, Citations: 13, H-index: 2
statistics:	Scopus: Publications: 7, Citations: 11, H-index: 2
	Web of Science: Publications: 6, Citations: 11, H-index: 2
<i>Other</i> ^₄	didactic responsibilities
	2022 - to date, assistant professor at AGH-UST, "Biomechanical Engineering" 2022 - to date, assistant professor at AGH-UST, "Biomedical Data Mining"
	2022 - to date, assistant professor at AGH-UST, "Biomechanical Constructions"
	2022 - to date, assistant professor at AGH-UST, "Computer Aided Design"
	2024 - to date, assistant professor at AGH-UST, "Identification and Modelling of Biological Structures and Processes"
	2024 - to date, assistant professor at AGH-UST, "Basic of Object Programing"
	2024 - to date, assistant professor at AGH-UST, "Object Oriented Programing"
	2022 - 2024, assistant professor at AGH-UST, "Design using the Finite Element Method"
	major grants (as Dringing Investigator)
	Title: Study of the effect of mechanical joint clearance on the energy efficiency of an electromagnetic energy harvesting device.
	Centre: AGH University of Krakow (D4/2906)
	Funds: Excellence Initiative – AGH Research University (IDUB): 20000 PLN

¹ Organisation, street address, telephone, email, web page ² With keywords characterising your field(-s) of expertise ³ Max. 10

⁴ List didactic, major grants, conference responsibilities, professional recognitions, memberships, journals, patents, etc.