Name and surname:	Krzysztof Sośnica
Academic Degree:	prof. dr hab. inż. (Prof.)
	Institute of Geodesy and Geoinformatics
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	https://baswiedzy.upwr.edu.pl/info.seam?id=UPWrbd14633e36ae4108a4aefde1c1e25350&affil=⟨=pl
Researchgate:	https://www.researchgate.net/profile/Krzysztof-Sosnica
001	http://www.igig.up.wroc.pl/igg/
website: Participation in projects in last 5	EArth's Gravity fieLd Evolution (EAGLE)
	Pit prof. dr hab. inż. Krysztof Sośnica
	Number (MSHE code): UMO-2021/42/E/ST10/00020
RF (wykonawca)):	Duration: 1.07.2022 - 30.06.2027
	Multi CNISS Dession Devid Desitioning with standards alock modeling
	Multi-GNSS Precise Point Positioning with stochastic clock modeling PI: prof. dr hab. inż. Krzysztof Sośnica
	Number (MSHE code): UMO-2021/43/O/ST10/00096
	Duration: 1.10.2022 - 30.09.2027
	Fundamental techniques, models and algorithms for a Lunar Radio Navigation system PI: prof. dr hab. inż. Krzysztof Sośnica (UPWr)
	Number (MSHE code): European Space Agency, ESA AO/1-10712/21/NL/CRS
	Duration: 7.10.2021 - 7.04.2023
	Integrated terrestrial reference frames based on SLR measurements to geodetic, active LEO, and GNSS satellites
	PI: prof. dr hab. inż. Krzysztof Sośnica Number (MSHE code): National Science Center, UMO-2019/35/B/ST10/00515
	Duration: 18.06.2020 - 17.06.2024
	Determination of Global Geodetic Parameters using the Galileo Satellite System
	PI: prof. dr hab. inż. Krzysztof Sośnica Nursker (NUL) s odb. Nutriera (Science Carter UNO 2018/20/0/CT10/2020)
	Number (MSHE code): National Science Center, UMO-2018/29/B/ST10/00382 Duration: 2.01.2019 - 1.01.2022
	General Relativistic Effects in the orbits of Galileo Satellites
	PI: dr hab. inż. Krzysztof Sośnica, prof. uczelni
	Number (MSHE code): European Space Agency, ESA Contract No. 4000130481/20/ES/CM Duration: 1.04.2020 - 1.03.2021
	Duration: 1.04.2020 - 1.05.2021
	Innovative Methods of the Troposphere Delay Modeling for Satellite Laser Ranging Observations
	YES
second supervisor or auxiliary	
supervisor?	Auxiliary supervisor
	Radosław Zajdel
	dr inż. (Dr. Eng.)
	Institute of Geodesy and Geoinformatics
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most important publications from	
last 3 year (JCR) / patents from last	
3 years (maximum 5): Researchgate:	https://www.eseeseekeele.est/esefile/Dodeslaw/Zoidel 0
Personal website / Working group	
website:	https://www.researchgate.net/profile/Radoslaw-Zajdel-2
Projects in last 5 years	https://www.researchgate.net/profile/Radoslaw-Zajdel-2
(chronological; with distinction into	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System
	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: Pl
PI (kierownik) and RF	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: Pl Number (MSHE code): National Science Center, UMO-2020/36/T/ST10/00097
	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: Pl
PI (kierownik) and RF (wykonawca)):	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: Pl Number (MSHE code): National Science Center, UMO-2020/36/T/ST10/00097 Duration: 01.10.2020 – 30.09.2021 Fundamental techniques, models and algorithms for a Lunar Radio Navigation system
PI (kierownik) and RF (wykonawca)):	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: Pl Number (MSHE code): National Science Center, UMO-2020/36/T/ST10/00097 Duration: 01.10.2020 – 30.09.2021 Fundamental techniques, models and algorithms for a Lunar Radio Navigation system Role: RF
PI (kierownik) and RF (wykonawca)):	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: Pl Number (MSHE code): National Science Center, UMO-2020/36/T/ST10/00097 Duration: 01.10.2020 – 30.09.2021 Fundamental techniques, models and algorithms for a Lunar Radio Navigation system Role: RF Number (MSHE code): European Space Agency, ESA AO/1-10712/21/NL/CRS
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PI (kierownik) and RF (wykonawca)):	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: PI Number (MSHE code): National Science Center, UMO-2020/36/T/ST10/00097 Duration: 01.10.2020 – 30.09.2021 Fundamental techniques, models and algorithms for a Lunar Radio Navigation system Role: RF Number (MSHE code): European Space Agency, ESA AO/1-10712/21/NL/CRS Duration: 7.10.2021 - 7.04.2023 Integrated terrestrial reference frames based on SLR measurements to geodetic, active LEO, and GNSS satellites Role: RF Number (MSHE code): National Science Center, UMO-2019/35/B/ST10/00515
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PI (kierownik) and RF (wykonawca)):	http://www.igig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: Pl Number (MSHE code): National Science Center, UMO-2020/36/T/ST10/00097 Duration: 01.10.2020 – 30.09.2021 Fundamental techniques, models and algorithms for a Lunar Radio Navigation system Role: RF Number (MSHE code): European Space Agency, ESA AO/1-10712/21/NL/CRS Duration: 7.10.2021 - 7.04.2023 Integrated terrestrial reference frames based on SLR measurements to geodetic, active LEO, and GNSS satellites Role: RF Number (MSHE code): National Science Center, UMO-2019/35/B/ST10/00515 Duration: 18.06.2020 - 17.06.2024 Determination of Global Geodetic Parameters using the Galileo Satellite System Role: RF
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PI (kierownik) and RF (wykonawca)):	http://www.iqig.up.wroc.pl/igg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: PI Number (MSHE code): National Science Center, UMO-2020/36/T/ST10/00097 Duration: 01.10.2020 – 30.09.2021 Fundamental techniques, models and algorithms for a Lunar Radio Navigation system Role: RF Number (MSHE code): European Space Agency, ESA AO/1-10712/21/NL/CRS Duration: 7.10.2021 - 7.04.2023 Integrated terrestrial reference frames based on SLR measurements to geodetic, active LEO, and GNSS satellites Role: RF Number (MSHE code): National Science Center, UMO-2019/35/B/ST10/00515 Duration: 18.06.2020 - 17.06.2024 Determination of Global Geodetic Parameters using the Galileo Satellite System Role: RF Number (MSHE code): National Science Center, UMO-2018/29/B/ST10/00382 Duration: 2.01.2019 - 1.01.2022 General Relativistic Effects in the orbits of Galileo Satellites Role: RF Number (MSHE code): European Space Agency, ESA Contract No. 4000130481/20/ES/CM Duration: 1.04.2020 - 1.03.2021
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PI (kierownik) and RF (wykonawca)): PhD topic:	http://www.iqig.up.wroc.pl/iqg/ Determination of Global Geodetic Parameters using the Galileo Satellite System Role: PI Number (MSHE code): National Science Center, UMO-2020/36/T/ST10/00097 Duration: 01.10.2020 – 30.09.2021 Fundamental techniques, models and algorithms for a Lunar Radio Navigation system Role: RF Number (MSHE code): European Space Agency, ESA AO/1-10712/21/NL/CRS Duration: 7.10.2021 - 7.04.2023 Integrated terrestrial reference frames based on SLR measurements to geodetic, active LEO, and GNSS satellites Role: RF Number (MSHE code): National Science Center, UMO-2019/35/B/ST10/00515 Duration: 18.06.2020 - 17.06.2024 Determination of Global Geodetic Parameters using the Galileo Satellite System Role: RF Number (MSHE code): National Science Center, UMO-2018/29/B/ST10/00382 Duration: 2.01.2019 - 1.01.2022 General Relativistic Effects in the orbits of Galileo Satellites Role: RF Number (MSHE code): European Space Agency, ESA Contract No. 4000130481/20/ES/CM Duration: 1.04.2020 - 1.03.2021 Innovative Methods of the Troposphere Delay Modeling for Satellite Laser Ranging Observations Role: RF Number (MSHE code): National Science Center, UMO-2015/17/B/ST10/03108
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problem to be solved in the PhD th (minimum 1000 characters): c ff li li li li li li li li li li li li li	One of the big societal challenges is global climate change. For a better understanding of these anthropogenic changes, the Earth's system and the interaction between the components have to be studied in detail. A basis is precise measurements, e.g., of sea level changes, hydrological cycles, and deglaciation. The fundamental basis of such measurements is a highly accurate and long-term stable global reference frame. The realization of such a frame and the investigation of the orientation of the frame in space and points on the Earth's surface with respect to the frame is a core task of geodesy. A fundamental contribution to this task comes from GNSS. However, the quality of GNSS-based observations is limited when using the legacy systems, i.e., American Global Positioning System (GPS) and Russian Global Navigation Satellite System (GLONASS).
Professional skills for PhD candidate (e.g. master program, specializations, softwares, language, analytical techniques, minimum 500 characters):	Completed master's studies in the field of engineering and technical sciences or exact and natural sciences, e.g. geodesy, computer science, physics, mathematics, astronomy, space and satellite engineering, or a related discipline. Experience in programming in Python, R, or Matlab and advanced data analysis (confirmed by scientific articles or thesis). Scientific achievements, including publications or speeches at scientific conferences, will be an additional advantage.
c	Proficiency in English (spoken and written). Capability to work independently and timely, enjoying participating actively in meetings of international teams and to present complex research matter concisely and appealingly (oral and written).
 Due to set station 	
/ 1	N/A
b) Agreement number: N	N/A
b) Agreement number: N c) Number of months in the project 0	N/A
b) Agreement number: Number of months in the project 0 to support PhD (in months; starting	N/A
b) Agreement number: N c) Number of months in the project 0	N/A