

# CURRICULUM VITAE

**Zuzanna Maria Krajewska**

*PhD Student*

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## Education

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Since 10.2018	National Centre for Nuclear Research (NCBJ) <b>Doctoral Studies</b> “New reactor concepts and safety analyses for the Polish Nuclear Energy Program”
03.2017 - 07.2018	Poznan University of Technology Masters Studies of Technical Physics Degree: <b>Master of Science Engineer</b> Specialization: Computer simulations
10.2013 - 03.2017	Poznan University of Technology Engineering Studies of Technical Physics Degree: <b>Bachelor of Science Engineer</b> Specialization: Nanotechnology and functional materials

## Seminars and conference talks

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16-20.10.2021	International Congress on Advances in Nuclear Power Plants (ICAPP 2021), Virtual Event UAE, “The Influence of the Aging Process on the Degradation of the Coated Particles of Nuclear Fuel Samples” (conference session speaker)
2-5.06.2021	International Conference on High Temperature Reactor Technology (HTR-2021), Virtual Event Indonesia, “Raman Spectroscopy Studies of TRISO-particle Fuel” (conference session speaker)
19.01.2021	NCBJ, UZ3 department seminar, Świerk (Poland) „Modeling Fully Ceramic Microencapsulated (FCM) Fuel – TRISO sample polishing methods for the experiment” (speaker)
4-7.10.2020	International Conference on Development and Applications of Nuclear Technologies, NUTECH-2020, Warsaw (Poland) “Raman spectroscopy as a tool of TRISO particle fuel defects examination” (conference session speaker)
23.06.2020	NCBJ, UZ3 department seminar, Świerk (Poland) „Modeling Fully Ceramic Microencapsulated (FCM) Fuel - description of the research objectives” (speaker)

1-5.06.2020	Online High-Temperature Hot Reactors Summer School, NCBJ (Poland) “TRISO coated particle representation by Raman spectroscopy method” (speaker at doctoral session)
16.08.2019	Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN), Japan Atomic Energy Agency (JAEA), Tokai (Japan) “Passing the Baton: Advantages and Disadvantages of Nescent Nuclear Collaborations – the Case of Japan and Poland” (speaker)
5-6.08.2019	International Conference on Nuclear Nonproliferation, Seoul(South Korea) “Passing the Baton: Advantages and Disadvantages of Nescent Nuclear Collaborations – the Case of Japan and Poland” (poster presentation)
3.12.2019	NCBJ, UZ3 department seminar, Świerk (Poland) „Nuclear Non-Proliferation, why it is so important and what I have learnt at the NEREC Summer School” (speaker)
12.04.2019	NCBJ, UZ3 department seminar, Świerk (Poland) “Why HTGRs failed in '60s and why we expect renaissance now?” (speaker)
28.04.2017	The Henryk Niewodniczański Institute of Nuclear Physics, Polish Academy of Science, Krakow (Poland) “The Cosmic Radiation in the Fight Against Genetic Diseases” (speaker)

## Experience

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7.07 - 17.08.2019	Korea Advanced Institute of Science & Technology (KAIST), Daejeon (South Korea) NEREC Summer Graduate Fellows Program
8 - 10.10.2018	International Conference on High Temperature Reactor Technology (HTR2018), Warsaw (attendee)
10.2017	Joint Institute for Nuclear Research, Dubna (Russia) Dzelepov Laboratory of Nuclear Problems „Training on the simulation of optical properties of the calibration laser system for the Baikal GVD“ (participant in a scientific project)
09.2017 - 03.2018	Technical University of Applied Sciences, Wildau (Germany) Master Studies: Photonics Student Exchange ERASMUS +
08.2017 - 09.2017	The Henryk Niewodniczański Institute of Nuclear Physics, Polish Academy of Sciences, Kraków Internship in Cosmic Radiation Department 30-31.08 the 1st Anniversary Symposium and Collaboration Meeting of the Cosmic-Ray Extremely Distributed Observatory (CREDO), Kraków (organiser & attendee)
07.2017	National Center for Nuclear Research, Warszawa Internship at the Astrophysics Division 10-23.07 the 3rd School of Cosmology, Kraków (attendee)
04.2017 - 10.2018	The Henryk Niewodniczański Institute of Nuclear Physics, Polish Academy of Science, Kraków Member of the Scientific Discovery Incubator (ION)

	Member of the scientific program CREDO (Cosmic-Ray Extremely Distributed Observatory)
03.2017 - 05.2017	Greater Poland Cancer Centre im. Marii Skłodowskiej-Curie, Poznań Internship in the field of medical physics
09.2016 - 02.2017	Technical University of Applied Sciences, Wildau (Germany) Engineering Studies: Physical Engineering Student Exchange ERASMUS +
07.2016 - 09.2016	Heinrich-Braun-Klinikum, Zwickau (Germany) Internship in the field of medical physics

## **Publications**

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1. Krajewska Z.M., Gudowski W., “Raman Spectroscopy Studies of TRISO-Particle Fuel”, Journal of Physics: Conference Series **2048** 012007, 2021.
  2. Krajewska Z.M., Buchwald T., Gudowski W., “The Influence of the Aging Process on the Degradation of the Coated Particles of Nuclear Fuel Samples”, Proceedings of ICAPP, Paper 21625, 2021.
  3. Temocin P., Krajewska Z., “Socio-political and Technical Aspects for Nascent Nuclear Projects”, NEREC Annual Report, p. 235-246, 2019.

## **Computer Skills**

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Aladin, Argus Lab, CORSIKA, ImageJ, LabVIEW, LAMMPS, Linux, Mathematica 5, Origin, Python, ROOT, TopCat

## **Languages**

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Polish (native), English (fluent), German (fluent)