MONIKA PUCHALSKA

JUNIOR JAVA DEVELOPER

DETAILS

Tanbruckgasse 25/2, Vienna, 1120, Austria
+436607393299
puchalska1977@gmail.com

Date / Place of birth
12.02.1977
Poland

LINKS

linkedin

website

SKILLS

- Analytical Thinking
- Ability to Work in a Team
- Fast Learner
- Adaptability
- Computer Skills
- Programming
- Database/SQL
- UI/UX

HOBBIES

embroidering, cinema, sudoku, biking

LANGUAGES

- Polish
- English
- German

PROFILE

Physicist with recently completed Java course, transitioning to software development and bringing strong analytical skills. Looking to start working as a junior Java developer with ambitions for continuous personal development.

EMPLOYMENT HISTORY

University Assistant at TU Wien, Vienna, Austria

January 2015 — December 2020

- Strategically planned and executed research initiatives, resulting in 99% on-time completion of project milestones.
- Successfully acquired state-of-the-art equipment, leading to increase in research efficiency and productivity.
- Conducted comprehensive data analyses using MATLAB, resulting in trends identification to optimize the use of passive detectors for proton dosimetry.
- Utilized advanced Monte Carlo simulations to significantly enhance understanding of neutron dose distribution in radiotherapy.
- Presented lectures at national and international conferences, resulting in increased visibility for the university.

Medical Physicist at Maria Skłodowska-Curie National Institute of Oncology, Warsaw, Poland

September 2014 — December 2014

- Ensured precise radiation delivery through precise dosimetric verifications of IMRT/VMAT radiotherapy treatment plans.
- Implemented rigorous quality assurance protocols for medical linac accelerators, guaranteeing treatment accuracy and patient safety.

Postdoc/Researcher at Chalmers University of Technology, Gothenburg, Sweden

April 2009 — August 2014

- Enhanced accuracy in simulations for the ion therapy through comprehensive benchmarking of MC transport codes.
- Investigated the effects of different radiation qualities on human cells through a rigorous comparative study, advancing understanding in the field.
- Expanded knowledge of dose distribution in the human body by developing a voxel-model for radiation transport simulations.
- Published peer-reviewed journal articles detailing findings from research projects related to radiation exposure, contributing to the advancement of scientific knowledge in the field.

Assistant Professor at Institute of Nuclear Physics PAN, Cracow, Poland

September 2008 — August 2011

- Improved dosimetry for space missions by expanding knowledge of the response of thermoluminescent detectors to cosmic radiation.
- Collaborated with professionals to collect and analyze data, contributing to a deeper understanding of dose distribution at the International Space Station (ISS).
- Developed GlowFit software for advanced data analysis and visualization, providing a valuable tool for the decomposition process in the field of thermoluminescence (link).
- Created a numerical model of a human torso phantom for precise dose distribution calculations, crucial for ensuring astronaut safety aboard the ISS.

- Elevated institute visibility by delivering lectures at national and international conferences, gaining recognition and acquiring collaborations with leading experts in the field.

EDUCATION

Java Software Developer, WIFI Wien, Vienna, Austria
September 2023 — March 2024

Developed a RESTful desktop application (link) and finished with very good results.

Full-Stack Engineer, codecademy (online)
May 2023 - now

ÖSD German certificates, Vienna, Austria
March 2021 — October 2022

Levels A2 - C1, in various institutions, i.a. ipcenter.

PhD in Physics, International PhD Studies at IFJ PAN, Cracow, Poland
October 2003 — July 2008

MSc in Technical Physics, AGH University of Krakow, Cracow, Poland
October 1996 — June 2001