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## Open Data Science Tools and Artificial Intelligence in Physics Education & Research

*Monday 3 July 2023 16:00 (20 minutes)*

The current data-driven era is rapidly transforming the world around us, including physics education research (PER) and education. Modern statistical, data science, and artificial intelligence (AI) methodologies enhance data processing, analysis, and visualization, enabling optimal data-driven decision-making. As PER increasingly adopts advanced methods and tools, there is still a lack of full openness, which provides a unifying framework connecting research practices, methods, data, and code for everyone in the PER community. Our key aim is to share our experience with open data science, encouraging broader adoption within the field. We also underscore the potential benefits of data science and AI in helping teachers adopt more effective blended learning.

### How would you like to present your contribution?

Live in Košice (time slot to be allotted based on the programme)

### Target education level (primary)

Pre-service teacher education

### Target education level (secondary, optional)

In-service teacher education

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