Contribution ID: **201**   Type: **Oral presentations**

Embracing Complexity –Computational Essays in Fostering Authentic Scientific Reasoning

Wednesday, 28 August 2024 10:30 (20 minutes)

Creating a scientifically literate population requires insight into how scientific thought is developed and put into practice. Computational essays can provide structural support for acquiring such argumentation skills through data-based reasoning while promoting the students'epistemic agency. With open data, this method can provide a valuable, authentic and easily accessible experience of scientific work in modern and varied contexts. We present a pilot look at a pre-service teacher course combining field work, expert lectures and data analysis, exploring how the medium of computational essays can be used to foster a deeper understanding of empirical sciences.

How would you like to present your contribution?

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

Target education level

Secondary

Category

Formal Education

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Session Classification: Oral presentations

Track Classification: Teaching and Learning Physics Concepts