



Contribution ID: 185

Type: **Oral presentation**

## **Integrating Python data analysis in an existing introductory laboratory course**

*Monday 3 July 2023 16:40 (20 minutes)*

In this presentation we describe how we incorporated data analysis with Python in the first year laboratory course at the University of Potsdam. This transformation was implemented without considerably altering the course structure. We carefully designed Jupyter Notebooks with exercises and applied physics examples. We use these Notebooks to guide students through the fundamentals of data handling and analysis in Python while performing simple experiments. We present our approach and the developed materials. Finally, we discuss the effectiveness of our intervention based on quantitative empirical studies in the lab class.

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

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

### **Target education level (primary)**

University education

### **Target education level (secondary, optional)**

Higher-secondary education

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