

WS 21: Coding in Python from the Ground Up

Audience Knowledge: Basic

Workshop Chairs

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Abstract

Computer-based work, including data analysis, has greatly increased in forensic toxicology over the past 10 years. Automation of various computer-based processes, including data analysis and handling of large datasets, are important tools to improve efficiency of laboratories. The Python programming language is particularly well suited to achieve that, in addition to being the de facto language for machine learning and deep learning. It also benefits from a direct integration into Microsoft Excel. In programming, the first steps are always the hardest as one gets oriented in the coding environment. Basic operations such as importing and visualizing data will be introduced and demonstrated by the speakers in interactive small modules. The participant will leave the workshop equipped to implement their analyses in Python... With the help of ChatGPT, Claude, and other LLMs. Attendees should come prepared with the Anaconda Distribution installed on their computer - an instruction video describing how to do this will be sent out prior to the conference. A full recording of the session will be provided to the participants after the conference as a reference.

Speakers

Tyler Devincenzi

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Workshop Agenda

Time	Topic	Speaker
08:00 AM - 10:00 AM	Practice Modules, Part 1	Devincenzi, Abonamah, Pasin, Ciallella
10:00 AM - 10:30 AM	Break	
10:30 AM - 12:00 PM	Practice Modules, Part 2	Devincenzi, Abonamah, Pasin, Ciallella