

TransMed/FTN Teaching Program 2023



name of the event		Advanced Interactive Data Visualization in Python			
Leading lecturer (PI)	academic title name	Shimpei Ishiyama, Dr. rer. nat.			
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additional lecturer(s) from the lab (academic title, name)		N/A			
name of Institution, Clinics		Institute of Pathophysiology			
type of event (lecture, seminar, practical workshop, online-seminar, etc)		Practical workshop			
location of event		Online			
teaching language		English			
start and end of event	date	from	20.11.2023	to	20.11.2023
dates	Monday	from	09:00	to	12:00
	Tuesday	from		to	
	Wednesday	from		to	
	Thursday	from		to	
	Friday	from		to	
maximum number of participants		20			
minimum number of participants		1			
maximum missed appointments		0			
special criteria for obtaining credit points		Participation			
content/aim of event, other remarks		<p>Interactive visualization is transforming the way we understand and communicate complex data in the biomedical field. Unlike static images, interactive plots allow viewers to explore, zoom, pan, and uncover nuanced insights that drive deeper understanding and more effective communication. In this advanced-level course, participants will be introduced to Plotly, a powerful library for creating dynamic visualizations.</p> <p>Key Learning Objectives:</p> <ul style="list-style-type: none"> • Introduction to Plotly and its unique features • Creating various types of interactive plots including scatter, bar, and heatmaps • Exporting interactive graphs as standalone HTML files for easy sharing • Hands-on examples and exercises <p>Requirements:</p> <ul style="list-style-type: none"> • Python Environment: Installing Python with essential libraries such as numpy, pandas, and plotly. Preferably using Anaconda. • Python Skills: Comfort with programming in Python and Jupyter Notebook, particularly in the areas of data analysis and visualization. • Data Handling: Basic understanding of Pandas DataFrames. <p>Note:</p> <p>This course is designed for those who are already comfortable with Python programming and will not cover elementary programming concepts. This course will focus exclusively on Plotly for interactive data visualization and will not cover Plotly's Dash for web application development.</p>			
location and date		Mainz, 05.09.2023			
signature (digital):					