Applied Data Analysis

Monday 12th Aug	i	1
Time	Session	Speakers
09:00-10:00	Opening Keynote	
10:00-10:30	Refreshment break	
10:30-12:00	Introduction to Applied Data Analysis * Presentation of the strand, objectives and schedule * Introductions * Example of a data analysis application * Setting up systems	Sven Najem-Meyer Paul Guhennec
12:00-13:30	Lunch	
13:30-15:30 15:30-16:00	Introduction to Pandas Intro to Pandas: data types (series, dataframes) Data loading Data access (indexing) Refreshment break	Sven Najem-Meyer Paul Guhennec
13.30-10.00	Refresiment break	
16:00-17:00	Exercises and catching-up session attendees may pick one from the options below: Catching-up: assistance is provided to clarify any issue from the previous classes or in setting up your Python environment. Exercises/project: exercises or mini-projects will be provided for practice. • Alternatively, attendees can bring their own mini-project to the class and work on it, individually or with others.	Sven Najem-Meyer Paul Guhennec

Time	Session	Speakers
09:00-10:30	Tidy data (part I) Basic concepts of (proper/tidy) data modelling	Sven Najem-Meyer Paul Guhennec
10:30-11:00	Refreshment break	
11:00-13:00	Tidy data (part II) Manipulating data with Pandas * Operations on tidy data frames: - set, union join - select, apply transform	Sven Najem-Meyer Paul Guhennec
13:00-14:30	Lunch	
14:30-15:30	Exercises and Catching-up Catching-up Work on exercises/mini-projects	Sven Najem-Meyer Paul Guhennec
15:30-16:00	Refreshment break	
16:00-17:00	OPTIONAL ATTENDANCE Enriching Exhibition Stories with Quire (Part 1) Quire is an open-source software project developed by Getty for authoring rich exhibition-centric digital outputs which are easy to write, build, deploy and maintain, including by smaller institutions and individuals. The AHRC-funded Enriching Exhibitions Stories project has extended Quire to incorporate structured Linked Art data alongside novel forms of digital analysis. In preparation for Thursday's hands-on session, the project team will introduce the Quire software and demonstrate its use in digital stories based on the Ashmolean Museum's acclaimed 2023 exhibition Labyrinth: Knossos, Myth and Reality.	Kevin Page, Tyler Bonnet, Erin Canning - University of Oxford e-Research Centre Aruna Bhaugeerutty, Andrew Shapland - Ashmolean Museum

Wednesday 14th Aug	ust	
Time	Session	Speakers
	Exploratory Data Analysis (part I)	
09:00-10:30	Basic plotting	Sven Najem-Meyer
09.00-10.50	Descriptive statistics	Paul Guhennec
	Variation, distributions	
10:30-11:00	Refreshment break	
	Exploratory Data Analysis (part II)	
11:00-13:00	Descriptive statistics and plotting with Pandas,	Sven Najem-Meyer
	Matplotlib and Seaborn	Paul Guhennec
	Data modelling: working with texts	
13:00-14:30	Lunch	
14:30-15:30	Exercises and catching-up Catching-up Work on exercises/mini-projects	Sven Najem-Meyer Paul Guhennec
15:30-16:00	Refreshment break	
16:00-17:00	Details TBC	
Thursday 15th Augus	t	
Time	Session	Speakers
	Applied Data Analysis (part I)	Sven Najem-Meyer
09:00-10:30	Explorative data visualization	Paul Guhennec
	Primer on good and bad data visualization practices	
10:30-11:00	Refreshment break	

11:00-13:00	Applied Data Analysis (part II) Geo-Mapping	Sven Najem-Meyer Paul Guhennec
13:00-14:30	Lunch	
14:30-15:30	Exercises and Catching-up Catching-up Work on exercises/mini-projects	Sven Najem-Meyer Paul Guhennec
15:30-16:00	Refreshment break	
16:00-17:00	OPTIONAL ATTENDANCE Enriching Exhibition Stories with Quire (Part 2) Continuing on from Tuesday's introduction, the Enriching Exhibition Stories team will guide attendees during this hands-on session. Through structured exercises, participants will install and run Quire, then design and implement their own digital story drawing upon Linked Art compatible collections.	Kevin Page, Tyler Bonnet, Erin Canning - University of Oxford e-Research Centre Aruna Bhaugeerutty, Andrew Shapland - Ashmolean Museum
Friday 16th August		
Time	Session	Speakers
09:00-10:30	Applied Data Analysis (part III) (Social) network analysis Constructing datasets for research	Sven Najem-Meyer Paul Guhennec
10:30-11:00	Refreshment break	
11:00-13:00	Publishing datasets & communicating results Communicating data analysis results Best practices about publishing datasets, licensing issues, reproducibility, data repositories	Sven Najem-Meyer Paul Guhennec

13:00-14:30	Lunch	
14:30-15:30	Questions and Open Discussion	Sven Najem-Meyer Paul Guhennec
15:30-16:00	Refreshment break	
16:00-17:00	Closing keynote	Nanna Bonde Thylstrup