



Course Code & Title	LISS357 Digital Methods for Analysing Texts				
Convenor(s)	Dr Ana Valdivia, Research Associate at SECURITY FLOWS				
Institution	King's College London	Department		LISS DTP	
Academic Year	2020-21	Term		Summer	
Number of sessions	6	Research Platform	Quantitative Research (QuT)	Length of Session(s)	3hrs (1h of lecture and 2h of seminar)
Day, Date		Start : End		Room Location	
Every Monday and Wednesday from April 12 th to 28 th 2021		10:00 to 13:00		Via Zoom	
Enrolment Links:	Click here to enrol on this online course – you may be prompted to log in to SkillsForge				

Course Description:

This course familiarises PhD students with the main **text mining** techniques in social science and develops basic skills in **digital methods**. After completion you are familiar with the theoretical and methodological underpinnings of natural language processing perspective and are able to conduct a basic text analysis. Throughout the course we will focus on applying text analysis to empirical data, where possible related to the students own research.

Students will become familiar with digital methods in text analysis as a flexible approach that comes with a practical set of research instruments to empirically investigate a range of questions in social science. They will learn how to approach and **manage text data**, **analyse texts**, and **visualize** this information.

Course schedule

Session date	Lecture	Lecture topic	Seminar topic
12 April	1	Introduction to text mining	Import text data
14 April	2	Analysing text	Methods for text preprocessing
19 April	3	Analysing words	Methods for word analysis
21 April	4	Analysing relations	Methods for co-occurrence analysis
26 April	5	Topic modelling	Methods for analysing context
28 April	6	Text mining in the real world	Analysing your own text

Reading List:

- Bengfort, Benjamin, Rebecca Bilbro, and Tony Ojeda. *Applied Text Analysis with Python: Enabling Language-Aware Data Products with Machine Learning*. " O'Reilly Media, Inc.", 2018.



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- Bird, Steven, Ewan Klein, and Edward Loper. *Natural language processing with Python: analyzing text with the natural language toolkit*. " O'Reilly Media, Inc.", 2009.
- <https://tm4ss.github.io/docs/index.html>

Eligibility:

You must be a PhD student at King's, Queen Mary or Imperial, and you must have already registered as a LISS DTP student via the following link: <https://liss-dtp.ac.uk/affiliates/>

Pre-course preparation:

For the hands on text mining part of the course we use Jupyter Notebook (Python). Please make every effort to install this on your own computers **before** the short course; reach out ahead of time if you need assistance.

Useful links:

- <https://jupyter.org/install>
- <https://medium.com/@kswalawage/install-python-and-jupyter-notebook-to-windows-10-64-bit-66db782e1d02>

Number of students:

15