Slide #	Summary	Theoretical/Technical/Informational	Concept	Week
2-5	 Introduction to causal analysis Motivation for causal inference/discovery 	Informational	Causal Analysis	0
6-10	 Introduction to DoWhy (what is it) Main functionalities/capabilities of DoWhy Major pros/cons of DoWhy 	Informational	DoWhy	0
14-17	• Tetrad, causalml, causal discovery toolbox, causalnex (pros/cons)	Informational	Tetrad, causal discovery toolbox, causalnex	1/2
18	 Summary table to compile the analysis and research on the 5 different tools related/dedicated to causal analysis Note that a revised version was sent separately 	Informational	Summary table	1/2/3
20	 Short intro to quasi-experimental design Comparison between experimental design and quasi-experimental design 	Theoretical	Quasi-experimental design	1/2
24-27	 Screenshots of graph-based apis that are used o the backend Main point is that all the tools have network capabilities 	Technical	Networkx	3
29-35	 Analysis conducted to compare the performance of DoWhy and causalnex on the Sachs dataset Contains information about Causal graph refutations Causal estimate refutations 	Technical	DoWhy & Causalnex	4
36-40	 Refutations in DoWhy with specific api references to validate causal graphs Causal minimality is also explained 	Informational and Technical	DoWhy	5
42	Diagram of the pipeline to be used when performing effect estimation	Technical	DoWhy	6
43	• Refutations of causal graphs in DoWhy – but a bird's eye view	Informational	DoWhy	6
45	List of causal tasks that can be done with DoWhy	Informational	DoWhy	6
46	Formal definition of effect estimation	Theoretical	Effect Estimation	6
48	 causal-learn doesn't provide a verified way of injecting background knowledge at-the- time of search 	Theoretical	Knowledge Injection	7/8
49	There is a critical difference between interventional and counterfactual data	Theoretical	Interventional vs Counterfactual data	7/8
50-51	 Graphical causal models in DoWhy are different than vanilla causal models in the sense that vanilla causal models do not contain information about the causal mechanisms 	Technical	DoWhy	7/8
52	 Anomaly attribution is a common task that a user may ask of a dataset In particular, the question is what has caused the outlier in my dataset? Isolated Forest is a popular choice for anomaly detection 	Theoretical and Technical	Anomaly Detection	7/8