

TOPOLOGICAL DATA ANALYSIS

Spring 2024 Schedule

Week	Subject	Presenter	Date	Reference
1	Basics (1.1,1.2,1.3)	Cisil Karaguzel	30 Jan 2024 (1-2 pm EST)	Computational Topology for Data Analysis
2	Basics (2.1,2.2)	Selman Ipek	6 Feb 2024 (1-2 pm EST)	Computational Topology for Data Analysis
3	Homological algebra (2.4,2.5-2.5.1)	Tushar Pandey	13 Feb 2024 (1-2 pm EST)	Computational Topology for Data Analysis
4	Persistent Homology (3.1,3.2,3.4)	Aziz Burak Gulen	20 Feb 2024 (1-2 pm EST)	Computational Topology for Data Analysis
5	Stability Theorems	Hitesh Gakhar	27 Feb 2024 (1-2 pm EST)	https://arxiv.org/abs/1905.13400
6	Graphical Summaries in TDA	Discussion session	5 March 2024 (1-2 pm EST)	https://research.math.osu.edu/tgda/mapperPBG.pdf
7	Topological Machine Learning	Sriram Raghunath	12 March 2024 (1-2 pm EST)	https://ieeexplore.ieee.org/abstract/document/10235748
8	Topological Machine Learning	Discussion session	19 March 2024 (1-2 pm EST)	https://ieeexplore.ieee.org/abstract/document/10235748
9		Discussion session on examples	26 March 2024 (1-2 pm EST)	
10		Discussion session on examples	2 April 2024 (1-2 pm EST)	