DH-500 Computational Social Media
Course Plan
Spring 2022, ELD 020
Instructor: Daniel Gatica-Perez
Teaching Assistants: Lakmal Meegahapola & Sina Sajadmanesh
Lectures, Homeworks, Readings, Projects, Other

Week & Date	AM session (10:15-12:00)	PM session (12:15-13:00)
25.02 Week 1	**Class self-presentation** **Lecture 1: Introduction, part 1** **Lecture 1: Introduction, part 2**	**Discussion about reading assignments** **Discussion about projects**
04.03 Week 2	**Readings assigned** **Lecture 2: Friending part 1** **Lecture 2: Friending, part 2**	**HW #1: Facebook friends (deadline: 09.03)** **Practical Lecture 1: Setting up a Twitter developer account and getting data using the API** **Deadline to create project teams**
11.03 Week 3	**Discussion HW #1** **Finish Lecture 2: Friending, part 2** **Lecture 2: Friending, part 3**	**Project team mentors assigned** **Reading #1: Families on Facebook**
18.03 Week 4	**Lecture 2: Friending, part 4** **Project ethical review procedure** **Lecture 3: Tweeting, part 1**	**Reading #2: Private traits and attributes are predictable from digital records of behavior**
25.03 Week 5	**Finish Lecture 3: Tweeting, part 1** **Lecture 3: Tweeting, part 2** **HW #2: Twitter data collection and descriptive analysis (deadline 14.04)** **Project pitch (5 minutes presentation + 5 minutes for questions per team)**	**Project pitch (5 minutes presentation + 5 minutes for questions per team)**
01.04 Week 6	**Lecture 3: Tweeting, part 3** **Lecture 3: Tweeting, part 4**	**Reading #3: Big Questions for Social Media Big Data: Representativeness, Validity and Other Methodological Pitfalls**
08.04 Week 7	**Lecture 3: Tweeting, part 5**	**Reading #4: The spread of true and false news online**

15.04 Week 8	No class (Easter Friday)	No class (Easter Friday)
22.04 Week 9	No class (EPFL Easter Holiday)	No class (EPFL Easter Holiday)
29.04 Week 10	**Discussion HW #2** **Lecture 4: Shooting, part 1** **HW #3: topic models (deadline 16.05)**	**Project mid-term presentations (5 minutes presentation + 2 minutes for questions per team)**
06.05 Week 11	**Lecture 4: Shooting, part 2**	**Reading #5: Instagram photos reveal predictive markers of depression**
13.05 Week 12	**Lecture 5: Moving** **Discuss indicative student feedback**	**Reading #6: Using deep learning and Google Street View to estimate the demographic makeup of neighborhoods across the United States**
20.05 Week 13	**Projects: discuss format for final presentation & report** **Discussion HW #3** **Lecture 6: Watching**	**Reading #7: 6 Seconds of Sound and Vision: Creativity in Micro-Videos**
27.05 Week 14	**Lecture 7: Crowdsourcing** **HW #4: content moderation (deadline 01.06)**	**Reading #8: Man is to Computer Programmer as Woman is to Homemaker? Debiasing Word Embeddings**
03.06 Week 15	**Discussion HW #4** **Lecture 8: Society**	**Reading #9: Towards Fairer Datasets: Filtering and Balancing the Distribution of the People Subtree in the ImageNet Hierarchy** **Reading #10: Reduced, Reused and Recycled: The Life of a Dataset in Machine Learning Research**
10.06	**Project presentation day** full day	
17.06	**Project reports due 7pm**	