



Full Syllabus



Course Title	
Workshop on AI Algorithms for Structural Biology	
Lecturer	
Dr. Jérôme Tubiana	
Semester	
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Course requirements	
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Final grade components	
Homeworks (30%), Project Report (30%), Project Presentation (40%)	
Course schedule	
Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
Class 1: 01/01	Introduction to proteins and machine learning
Class 2: 08/01	Visual analysis of protein structures Homework 1 Assigned
Class 3: 15/01	Quantitative analysis of protein structures
Class 4: 22/01	Recap week of previous material. Homework 1 Due Project list released
Class 5: 29/01	Supervised Machine Learning (I) Projects Assigned Homework 2 Assigned
Class 6: 05/02	Supervised Machine Learning (II); Convolutional Neural Networks Homework 2 Due Project kickstart meetings
Week of 12/02	Project meeting 1
Week of 22/02	Project meeting 2
Week of 29/02	Project meeting 3
Week of 04/03	Project meeting 4
Class 7: 11/03	Project oral presentations
Week of 18/03	Project report due
Required course reading	
/	
Optional course reading	



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- Coursera MOOC on Introduction to Machine Learning:
<https://www.coursera.org/specializations/machine-learning-introduction>
- Introduction to Proteins: Structure, Function and Motion, Kessel and Ben Tal, 2017

Comments

The course will be given in English