



# Deep Learning - MAI

Theoretical Presentation guidelines

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# In a nutshell

- ❖ You must read, explain and criticize a recent deep learning paper
  - Nothing to deliver to the lecturer
- ❖ You must prepare a 10-15 min presentation
  - At 15 min you will be STOPPED. Leave yourself some margin.
- ❖ Questions from lecturer and fellow students will follow (5 min)



# Which papers?

## ❖ From NeurIPS

- 2020: <https://proceedings.neurips.cc/paper/2020>
- 2019: <https://proceedings.neurips.cc/paper/2019>
- 2018: <https://proceedings.neurips.cc/paper/2018>

## ❖ From ICLR

- 2020: [https://iclr.cc/virtual\\_2020/papers.html?filter=keywords](https://iclr.cc/virtual_2020/papers.html?filter=keywords)
- 2019: <https://iclr.cc/Conferences/2019/Schedule?type=Oral>
- 2018: <https://iclr.cc/Conferences/2018/Schedule?type=Oral>

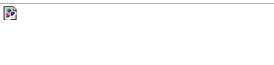
# Which papers?

## ❖ From ICML

- 2020: ?
- 2019: <http://proceedings.mlr.press/v97/>
- 2018: <https://icml.cc/Conferences/2018/Schedule?type=Oral>

## ❖ From ECCV/ICCV

- 2020: ?
- 2019: [https://iccv2019.thecvf.com/program/main\\_conference](https://iccv2019.thecvf.com/program/main_conference)
- 2018: <https://openaccess.thecvf.com/ECCV2018>



# Which papers?

## ❖ From KDD

- 2020: <https://www.kdd.org/kdd2020/accepted-papers>
- 2019: ?
- 2018: ?

## ❖ From ECAI/IJCAI

- 2020:  
<https://digital.ecai2020.eu/accepted-papers-main-conference/>
- 2019: <https://www.ijcai19.org/accepted-papers.html>
- 2018: <https://www.ijcai-18.org/accepted-papers/index.html>

# Which papers?

- ❖ Pick one you like from the proposed sources.
- ❖ Must be related with the course content
  - CNNs
  - RNNs
  - Transfer learning
  - Transformers
  - HPC + DL (papers from other conferences are acceptable)
- ❖ The lecturer **MUST VALIDATE** your choice (mail)



# What to present?

- ❖ Describe the paper itself, and provide constructive criticism on it.
- ❖ **Incomplete** and **non-compulsory** list of things to discuss:
  - What is the main contribution of the article?
  - How could this paper be extended by more experiments or analysis?
  - Are there flaws in the paper methodology?
  - How reliable are the findings?
  - What consequences / future work can derive from this paper?

# General tips

- ❖ Read related work (citations of the paper) when relevant and necessary
- ❖ Don't waste too much time on showing/explaining formulae
- ❖ If necessary prepare extra slides to reply to questions on aspects of the paper you don't have time to explain
- ❖ Assume the audience is an expert. Focus on the interesting parts.



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