



# Master Seminar: Deep Learning for Medical Applications

## Presentation and Blogpost Guidelines

# Logistics

- Presentation: 20 Minutes
- Q&A: 5-10 Minutes
- Number of slides: Approximately 15 - 25
- Attendance is mandatory, however, being absent for one session is allowed. If more than one session is skipped, 0.3 is deducted from the final grade.
- Blogpost submission: Latest **1 week before** your presentation
- Remember: Presentation and Blogpost each account for 50% of the total grade



# Steps to Success (I): Independent Research

- Read the paper assigned to you.
- Investigate complimentary material that might give you more insight on the task and method at hand.
- Read Blogposts, watch videos and lectures and look for code repositories complimenting the paper assigned to you.
- Note down any potential questions and parts of the paper that remain unclear after your independent research.
- Prepare a first version of your presentation using this guide.



# Steps to Success (II) - Feedback Loop

- Arrange a meeting with your advisor in order to receive their feedback and ask any questions that remained unclear after reading the paper.
- Make sure that your tutor gives feedback on your blogpost
- Send the first version of your presentation to your advisor **At least one week before your presentation.**
- Iterate over your presentation until you reach a final version.
- Rehearse a few times before the day of your presentation to ensure your timing and slides are in order.



# Evaluation Sheet

**This is the sheet that the tutors fill to grade your presentation**

1. Was the introduction / big picture / motivation explained properly? 20%
2. How well were the preceding works explained? 10%
3. How well did you understand the methodology? 20%
4. How was the experimental setup explained? 10%
5. How were the results (tables, charts, ...) explained? 10%
6. How well did the student reflect the discussion, implications, and conclusions existing in the paper? 10%
7. Does the student critically look at the paper? (strengths, weaknesses, suggestions) 10%
8. Quality of slides (proper fonts, pictures, citations,...) 10%



# Presentation Structure (I)

## 1) Introduction

- Problem statement
- Motivation (what is lacking in previous works, ...)
- Briefly mention related works

## 2) Methodology

- Detailed explanation of the method proposed in the paper



# Presentation Structure (II)

## 3) Experimental Setup

- Datasets
- Evaluation baselines
- Training setup

## 4) Results and Discussion

- Selected results that show the effectiveness of the proposed method
- Present the conclusions and implications from the results (from the authors, not your own)



# Presentation Structure (III)

## 5) Your own review and discussion

- Open questions
- Applicability of the method to different fields
- Strengths and Weakness of the work
- Lessons learned

## 6) Final Slide:

- Summary of the work / presentation (Take-home message)





# Helpful Points

- Encourage the audience to engage in discussion after your presentation.
- Talk about open questions and share your own view of the paper and its potential future impact.
- In order to maintain the interest of the audience make sure the storyline of your presentation is engaging.
- Proofread your presentation and do not copy-paste statements directly.
- You can use figures from other sources but always make sure to cite them.



# References in the slides

- The citations should be placed at the footer of the slide they are being mentioned.
- Full list of authors, title, conference/journal of publication and year should be mentioned.
- An example can be found in [1].



[1] Furrer F, Clot J, Haller DM. How to perform a successful scientific presentation?, Revue Medicale Suisse, 2019

# Blogpost

Structure: Similar to the presentation. There are **two** main sections in the blog post.

1. Paper summary (1000 to 1200 words) (**Your own words, be careful about plagiarism**)
2. Your own review ( 200 to 300 words) (Place it in the end of the blogpost, with a heading that makes it clear this is your review and not from the paper)

Paper summary: It should **summarize the paper** with high emphasis on:

- Problem Statement / Big picture
- Methodology
- Results and Conclusions

Your own review:

- Strengths
- Weaknesses
- Suggestions for improvement / future work



# Blogpost Evaluation

- How was the problem motivation and the big picture reflected 20%
- How well did you understand the Methodology 20%
- How informative are the Results and Conclusions 20 %
- How was the Quality of student's review 20 %
- How well written and understandable the blogpost is 20%



# Blogpost

You can have a look at the examples from the previous semesters here:

<https://wiki.tum.de/display/dlma/DLMA%3A+Deep+Learning+for+Medical+Applications+Startseite>

- Advice:
  - <https://www.fast.ai/2019/05/13/blogging-advice/>
- Check out these blogs:
  - <https://bair.berkeley.edu/blog/>
  - <http://ai.stanford.edu/blog/>
  - <https://blog.ml.cmu.edu/>





**Good Luck!**

Feel Free to Contact Us for Questions

