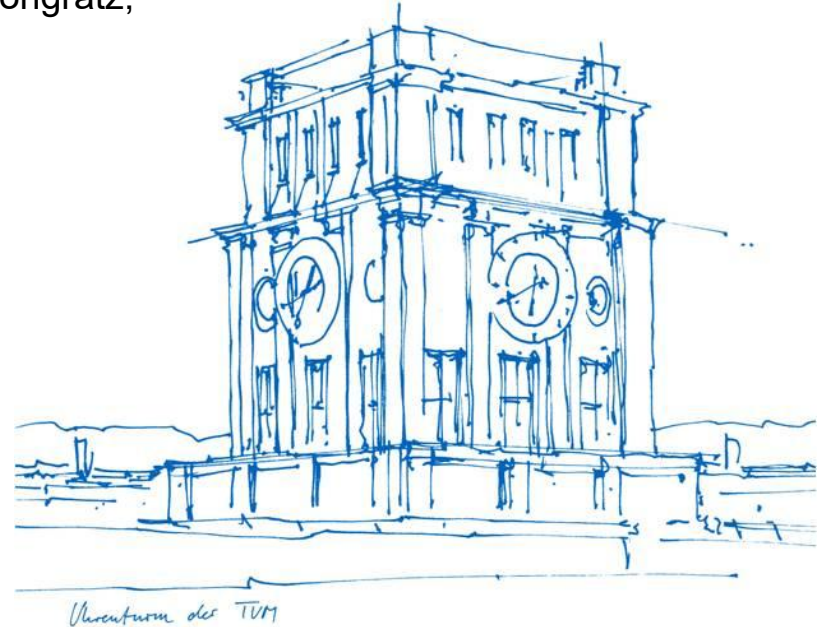


ML-Neuro Seminar Summer 2026: Kickoff

Qihang Sun, Martin Rath, Alexandra Samoylova, Fabian Bongratz,
Yitong Li, Emre Kavak, Prof. Dr. Christian Wachinger

Lab for Artificial Intelligence in Medical Imaging
Department of Radiology / Faculty of Informatics
Technical University of Munich

24 April 2026



Platforms

Wiki

- <https://wiki.tum.de/display/mlneuro>
- General information about the seminar
- Links to papers
- Additional material (e.g., exemplary blogs)

Pages | Seminare | Machine Learning in Neuroimaging (ML-Neuro)

ML-Neuro, WiSe 2022/23

Master seminar Machine learning in Neuroimaging

Lehrstuhlinhaber: Prof. Dr. Christian Hechtlinger, Anna Maria Hickmann, Tom Nauw, Prof. Fabian Bongers

Contact

If you have any questions regarding the seminar contact contact@mlneuro.de

Announcements

- Deadline for registration in **October 4, 2022, 03:00**.
- August 5, 2022: Meeting results have been released.
- The pre-course meeting takes place on **July 13, 2022 at 1pm via Zoom** (link can be found on TUM Online). Slides are [here](#).

Moodle

- Platform for communication
- Questions & Discussion

Startseite | Meine Startseite | Hilfe

Lehrstuhl Moodle
Technische Universität München

Master-Seminar - Machine Learning in Neuroimaging (IN2107)

Kurs | Aktivität

Ankündigungen und Nachrichten

Foren durchsuchen

Thema	Beginnen von	Letzter Beitrag	Antworten
☆ ML-Neuro Seminar: List of papers released	Fabian Bongers 17. Okt 2022	Fabian Bongers 17. Okt 2022	0 1
☆ ML-Neuro Seminar WiSe 2022/23	Fabian Bongers 8. Aug 2022	Fabian Bongers 8. Aug 2022	0 1
☆ Assignment of Papers	Fabian Bongers 12. Aug 2022	Fabian Bongers 12. Aug 2022	0 1

Expectations

- Being able to read a paper in a structured way
- Explanation of complex ideas in an understandable blog post
- Usage of modern AI tools (ChatGPT) in a deliberate way
- Presentation of research findings to a technical audience

What to deliver?

- Paper presentation
70% of final grade
- Blog post (~4 pages DIN A4) about the selected paper, see [these](#) guidelines
30% of final grade

Paper presentation

- 20 min. presentation, 10 min. discussion (will influence grade)
- Rule of thumb: 1–2 minutes per slide → 10–20 slides
- In-person
- Talks are held in English
- Technical audience: use appropriate language
- Hand-in of slides via wiki (restricted access page) until **30 June 2026 23:59**
- Recommended structure:
 - Introduction
 - Overview / Outline
 - Method description
 - Experiments and results
 - Personal comments
 - Summary

Blog post

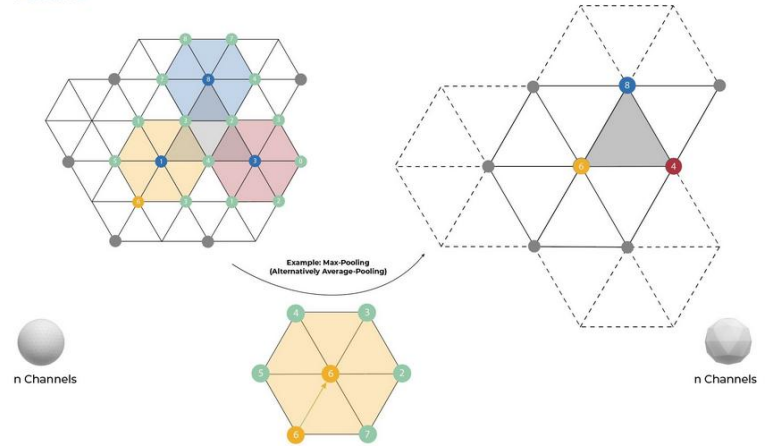
- Written and posted in the wiki
- Approx. 4 pages
- Mostly non-technical language
- Primarily self-made figures!
- Published on wiki
- Deadline: **16 July 2026** (two weeks after presentations)

Blog post: be creative!



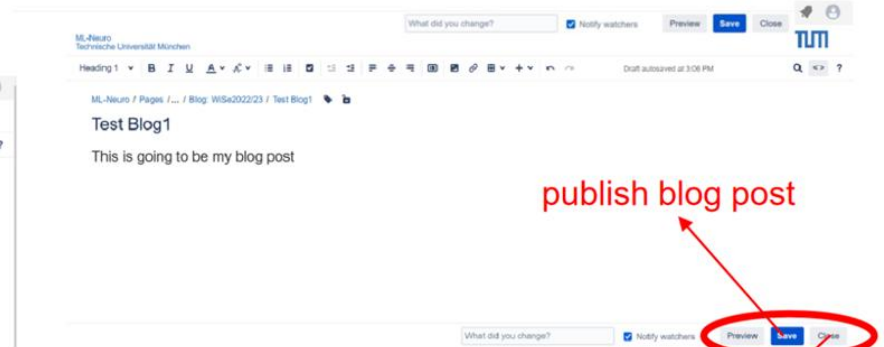
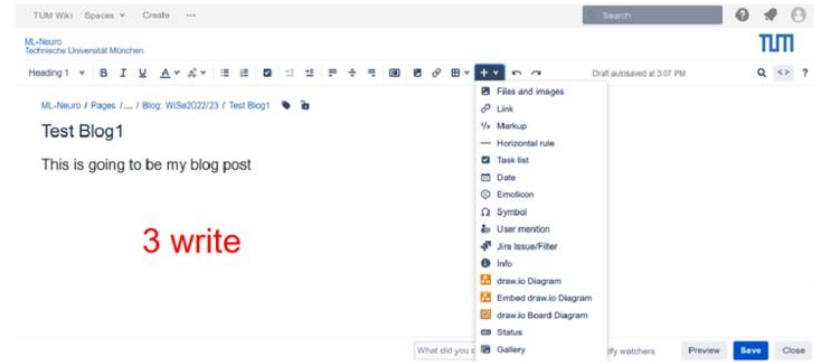
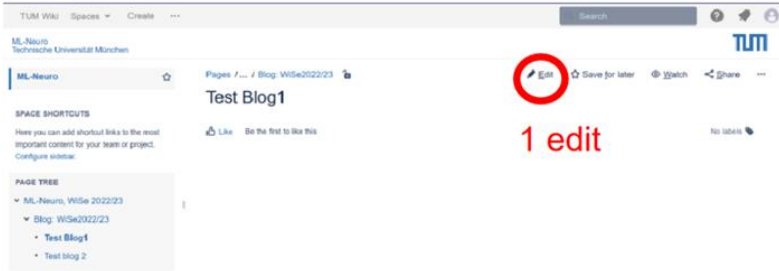
Figure 2: Two half steps vs. one full step in gradient descent and in Gingsog city

Fig. 5
POOLING



[Fig 5] The same DiNe-Filter can be used by applying it only on vertices that are still present in a lower resolution icosahedron (here orange, blue and red respectively) to achieve pooling.

Writing the blog post



Blog post heading

The heading of the blog post should be in the following format to distinguish you (the authors of the blog post) from the authors of the paper:

<Blog post Title>

Blog post written by: <Your name>

Based on: <Paper citation (APA)>

ChatGPT

- Brainstorming: outlines, arguments
- Research assistance: additional supervisor (with a lot of time and patience :))
- Writing support

- Mention use of ChatGPT. Key ChatGPT prompts are to be listed at the end of the blog post.
- chatpdf.com
- Grading based on the quality (independent of using ChatGPT)

Warnings:

- Beware of hallucinations
- 10 min discussion: ChatGPT cannot help you there. You need to understand the topic.

Questions?