### Mechanistic Interpretability

Housekeeping WT 2024/25

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Preliminaries

Organization Presentation Implementation Project Final Grade

## **Overview**

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What now?

### **Preliminaries**

### About me

# Preliminaries Organization

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What now?

### **mail**: riemenschneider@cl.uni-heidelberg.de

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## What you should already know about

- Neural Networks and how to tame train them
   common NLP architectures and concepts
  - LSTM
  - seq2seq
  - attention
  - Transformer

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What now?

### Organization

### This seminar

- rest of today: organisation and paper overview
- next week: fundamental concepts
- after that: presentations by students
- literature list with schedule on the course page

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### How to get points

- participation
- presentation
- implementation project

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## How to get points

### active participation

- no more than one unexcused absence
- active participation in classroom discussion

### preparation

- Read all scheduled papers.
- Hand in two questions or comments about each paper via mail.
- deadline: each tuesday before the seminar, 3pm
- part of your participation grade

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## Presentation

preparatory seminar

- usually one paper
- $\blacksquare~\sim$  30 minutes
- main seminar
  - usually two papers
  - $\blacksquare~\sim$  60 minutes

Discuss the presentation with me before the seminar.

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## **Presentation grading**

presentation content

- explain methods and results
- point out strengths and weaknesses
- presentation style
  - structure
  - clarity of the presentation
  - design of the slides, use of illustrations, etc.

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## **Presentation grading**

- A good presentation adds to the paper.
  - Put it in context with related work/what we have seen in the seminar.
  - If there is code, look at it to explain unclear passages.
- source for all illustrations you use
- text is evil

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## Implementation project

- max. 8 pages (both PS and MS)
- possibilities
  - clean reimplementation of one of the approaches
  - exploration of one of your own ideas

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## Submission and final grade

- submission of all final projects and papers by 31st of March
- If you do a second presentation, you are done by the end of the semester.
- final grade is made up of
  - participation (30%)
  - presentation (40%)
  - implementation project or second presentation (30%)

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What now?

### What now?

- write a mail to riemenschneider@cl.uni-heidelberg.de containing...
  - ...three topics that you would like to present, ranked by your preferences.
  - ...at most one date on which you can absolutely not present (current dates might change).
  - ...whether you want to take it as a preparatory or main seminar
  - ...your name.

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