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Seminar: Newest Trends in High-Performance Data Analytics

Seminar: Learning Objectives

- Appraise research in the area of high-performance data analytics
- Compose a scientific presentation covering their selected topic in depth
- Evaluate findings (tools or theory) of other researchers
- Explain theory and application covering their topic
- Perform effective scientific literature search
- Organize concepts, ideas and thoughts into a well-structured report

Seminar

- The seminar assessment consists of the parts:
 - ▶ Presentation 35 min (50% of grade)
 - + 5 min Q&A + 5 min feedback
 - Leeway of ± 5 min
 - ▶ Report (50% of grade)
 - 10-15 pages (core content, without preamble/appendix)
- We aim to publish all presentations and reports on our webpage
 - ▶ You can disagree without any disadvantage
- Please check also [organisational remarks](#)
- A supervisor for formative assessment will be assigned
 - ▶ to each topic/student
- Today, you can pick topics from the webpage!

Schedule for Preparation of Presentation/Report

■ 3 Weeks **before** presentation

- ▶ Submission of a structure/rough sketch of the presentation to the supervisor
- ▶ Receive feedback and optional discussion with the supervisor

■ 2 Weeks **before** presentation

- ▶ Sketch of the slides, feedback of the supervisor
- ▶ Recommendation: practice the slides to find gaps

■ 1 Week **before** presentation

- ▶ Send slides to Jonathan to confirm that you can present in following week
 - If not done, your presentation will be **cancelled!**
- ▶ Recommendation: practice slides for smooth transitions

■ **Before** the end of the semester

- ▶ Receive feedback on structure, style and content of report from supervisor
- ▶ Submission of the report as PDF per email to
Jonathanjonathan.decker@uni-goettingen.de

Course Organization

- 2025-04-17 Meeting: Introduction & Scientific Presentation
- 2025-04-24 Meeting: L^AT_EX Crash Course & Scientific Writing
- 2025-04-25 You have submitted your topic to Jonathan by email
- 2025-05-02 You have been assigned a supervisor and presentation date
- 2025-05-08 Meeting: Effective Literature Search
- 2025-05-22 Meeting: And following weeks, 2 student presentations per week
- 2025-10-31 Deadline for submitting reports

Additional Remarks

- It is your responsibility to contact your supervisor
 - ▶ They might take a few days to answer
- If you get stuck/need help $\Rightarrow$ ask your supervisor
- Ask for feedback for the direction of your work, presentation, report
 - ▶ Be specific in your questions and feedback requests to get faster responses
- If you have a problem with your supervisor, contact Jonathan
jonathan.decker@uni-goettingen.de
 - ▶ If you have a problem with Jonathan, escalate to Prof. Kunkel
julian.kunkel@gwdg.de
- Remember to submit slides one week before the presentation
- If you are unhappy with your topic, discuss with your supervisor
 - ▶ Switching early on is possible
- We will inform you when FlexNow registration is open

Expectations

You will be graded based on

- Quality of presentation
 - ▶ Form/Style
 - ▶ Content/Depth
- Quality of report
 - ▶ Form/Style
 - ▶ Content/Depth
- Requires in-depth research into topic
 - ▶ Reading (recent) papers on topic
- Bonus: Practical engagement with topic

*"Students shouldn't go into life without the ability to communicate.
Your success in life will be determined largely by...*

- your ability to speak,*
 - your ability to write, and*
 - the quality of your ideas,*
- in that order."***

— Prof. Patrick Winston