HPS
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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

2026-10-29 Meeting: Introduction & Scientific Presentation

2026-11-05 Meeting: LaTeX Crash Course & Scientific Writing

2026-11-06 You have submitted your topic to Jonathan by email

2026-11-12 Meeting: Effective Literature Search

2026-11-13 You have been assigned a supervisor and presentation date

2026-26-11 Meeting: And following weeks, 2 student presentations per week

2027-03-31 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