

---

# Intelligente Datenanalyse Intelligent Data Analysis

Tobias Scheffer, Gerrit Gruben, Nuno Marquez

# Organization

- English and German lecture videos:
  - ◆ Watch them in the privacy of your own house.
  - ◆ This term, there is no live lecture, go watch the video!
  - ◆ Write down any question that you have!
- Q&A: ask all your questions!
  - ◆ Every Monday, 10:15-11:45, 3.06.H01
  - ◆ You **have to** watch the lecture video beforehand!
- Labs and exercises (mandatory):
  - ◆ English: Tuesday 10:15-11:45, 3.04.1.03
  - ◆ Deutsch: Thursday, 10:15-11:45, 3.04.1.03
  - ◆ You **have to** complete the homework beforehand!

# Modules

- Bachelor Informatik Computational Science
  - ◆ Mandatory (Intelligente Datenanalyse)
- Master Cognitive Systems
  - ◆ Mandatory
- Master Computational Science
  - ◆ Only if you did not take this for Bachelor's program
  - ◆ Maschinelles Lernen / Maschinelles Lernen II
  - ◆ IDA in den Naturwissenschaften

# Exams

- For Students of all bachelor programs and of the master program Cognitive Systems
  - ◆ Successfully complete labs and exercises
  - ◆ Written exam (60 minutes) followed by 15 minutes of discussion.
- For Students of all other master programs:
  - ◆ Successfully complete labs and exercises
  - ◆ Successfully complete semester project
  - ◆ 30 minutes presentation of the semester project and oral exam.

# Organization

- Website: [cs.uni-potsdam.de/ml/teaching/ss16/ida.html](http://cs.uni-potsdam.de/ml/teaching/ss16/ida.html)
  - ◆ Slides and lecture videos from Tuesday
  - ◆ Introductory mathematics videos and tutorials
  - ◆ Homework to be completed for the next lab

# This Week

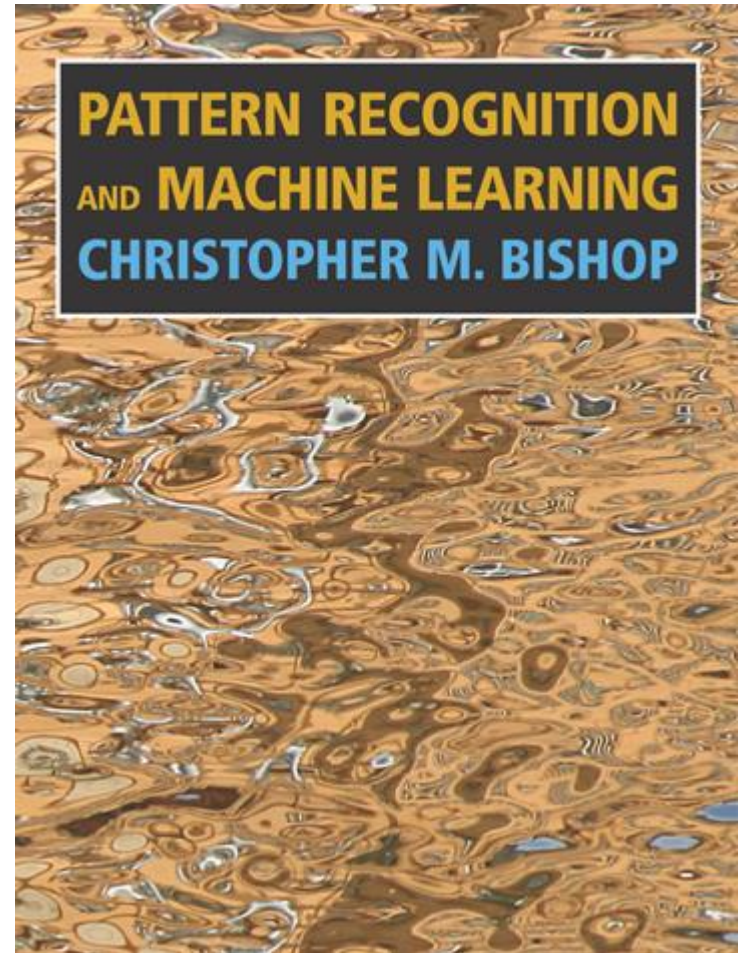
- Today: Lecture “Models, Data, Learning Problems.”
- There will be no lab this Tuesday or Thursday.
- From today: tutorial on statistics and mathematical foundations is online,
  - ◆ Recommended for MSc Cognitive Systems.
- From tomorrow: Next lecture “Introduction to Python” is online, first exercise is online.

# Next Week

- Monday: Q&A for “Introduction to Python”
- Tuesday and Thursday: First lab “Basic Python”
- From Tuesday: third lecture “Problem Analysis and Data Preprocessing” and corresponding exercise are online.

# Literature

- Chris Bishop: Pattern Recognition and Machine Learning.
- 30 Copies available in the library
- Can also be found online.





# Literature

- Kevin Murphy: Machine Learning: a probabilistic perspective
- Can also be found online.

