• About Data Science Lab
• Activities 2018–2019
• Advisory board/user panel 2020–

More info: https://datalab.science.ku.dk
Aim, history, funding

Overall aim: Enhance the quality of scientific data analyses in research carried out at the Faculty of Science.

- Merge of faculties with different traditions, 2013
- Laboratory for Applied Statistics 2013–2017
- Data Science Lab 2018–2019 (planned for 2018–2020)
- KU Data Science Lab (one of five) 2020–2023

Hosted by MATH and DIKU, funded with $2 + 2$ ÅV, from SCIENCE 2018–19, 50:50 between KU and SCIENCE from 2020.
Overview of activities

- Research collaboration
- Consultancy meetings with students and researchers
- Four PhD courses per year
- Short courses about Python, R, and Data Science
- Supervision of BSc and MSc theses in collaboration with other departments or private companies
- Presentations at PhD courses, visits to sections, dissemination
- For payment: Criminal court cases, courses and counseling for public offices and private companies
Research collaboration and publications

• Open for counseling of all researchers from SCIENCE (PhD students and up)
• Range from a single meeting or email to co-authorship and development of new stat/cs methods
• In 2019 we had 86 new approaches (plus \( \approx 80 \) short consultancy meetings with PhD students)
• \( \approx 26 \) of the approaches have potential for collaboration (joint papers and/or grant submission)
• 21 cross-disciplinary journal/conference publications in 2019
• Collaboration with scientists outside SCIENCE, some for payment
Courses

- **Introduction to R**
  1.5 days, for PhD students and up, 44 participants in 2019

- **Introduction to Python**
  2 days, for students and employees, 80 participants in 2019

- **Statistical Methods for the Biosciences I**
  4.5 ECTS, 37 participants in 2019/20 (24 from SCIENCE)

- **Statistical Methods for the Biosciences II**
  Project course, 3 ECTS, 5 participants in 2019 (14 in 2020)

- **Machine Learning and Imaging Methods**
  3 ECTS, 31 participants in 2019 (27 from SCIENCE)

- **Machine Learning and Imaging Projects**
  Project course, 4.5 ECTS, 7 participants in 2019
Consultancy for students

Consultancy meetings with students two times per week at Nørre Campus or Frederiksberg Campus.

Students at all levels are welcome, and meetings last ≈ 20 min.

In 2019 we had 480 such meetings.

- All departments represented in 2019. PLEN, NEXS, IGN account for 57% in total
- Most visitors write their MSc thesis (70%), but PhD students (17%), BSc students (7%), others (6%) also show up.
Advisory board and/or user panel

We look for advice on the future direction for the Lab. Suggestions:

Use SFU as advisory board: Presentation of yearly report and discussion of future directions

Establish user panel:

- Representatives for research from a number of departments (VILFs or appointed researchers with interest in collab.)
- At best, representation from departments with many as well as few interactions with Data Science Lab
- Representatives for PhD students (PhD school) and MSc students (VILFs or advisors who send many students)
- Evaluation of current activities and guidance on current and future needs among researchers/teachers/PhD/MSc students
- Guidance on how to reach out even broader at SCIENCE