



UiO : Universitetsbiblioteket

Digital forskningskompetanse – hvordan biblioteket ved UiO samarbeider med forskningsmiljøene for å sikre en god overgang til datasentrisk forskning



Live Håndlykken Kvale og Elin Stangeland
Åpnere vitenskap og sterkere ph.d.-støtte, Tromsø 10-11 april

Agenda

- Bakgrunn
- Carpentry
- Research Bazaar
- Veien videre på UBO





UiO : Universitetet i Oslo

Dataeksplosjonen – en stor utfordring, og en gedigen mulighet!

Rapport fra arbeidsgruppen «Lagring og deling av forskningsdata» ved Universitetet i Oslo (UiO) 11.05.2015

The
FOUR
PARADISES
DATA-INTENSIVE SCIENTIFIC

EDITED BY TONY HEY, STEWART TANSLEY, AND K



Phaistos Disk, et eksempel på tidlig datalagring.
The Archaeological Museum of Heraklion (cc by-sa)



NTNU-rector Gunnar Bovim, UiO-rector Svein Stølen og UiB-rector Dag Rune Olsen delte sine tanker om fremtidens kompetansebehov under Finansnæringens dag.

FOTO: NTNU, UiO, UiB

Slik vil rektorene løse fremtidens kompetansebehov

Flere reformer stiller store krav til omstilling for lærestedene. Norske universiteter girer om for harde livet.

Olsen forteller også at han sitter med et forslag for tiden som vil kunne innebære at IKT innføres i alle fag - fra fransk litteratur til biologi og juss.

På Universitetet i Oslo har de nylig innført avansert datametode innen statsvitenskap.

Glem intervjuet

– Jobbintervju er ut, få heller en student til å utføre en oppgave i samarbeid med deres bedrift, sier NTNU-rector Gunnar Bovim.

De 42.000 studentene ved NTNU utfører om lag 7000 større oppgaver hvert år.

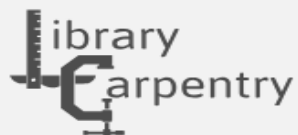
– Dette er en veldig uutnyttet ressurs, og det er gratis for dere, sier Bovim til salen full av finansfolk.

Tverrfaglighet

Han har lyttet til egen styreleder. Da Hydro-sjef og styreformann ved NTNU, Svein Richard Brandtzæg, reflekterte over hva han hadde lært



We teach foundational coding and data science skills to researchers worldwide.



What we do

The Carpentries teach foundational coding, and data science skills to researchers worldwide. Software Carpentry, Data Carpentry, and Library Carpentry



Who we are

Our diverse, global community includes Instructors, helpers, Trainers, Maintainers, Mentors, community champions, member organisations, supporters, workshop



Get involved

See all the ways you can engage with the Carpentries. Get information about upcoming events such as workshops, meetups, and discussions from our

Our Core Lessons in English

Lesson	Site	Repository	Reference	Instructor Guide	Maintainer(s)
The Unix Shell					Gabriel Devenyi , Colin Morr
Version Control with Git					Ivan Gonzalez , Daisie Huang Madicken Munk
Programming with Python					Trevor Bekolay, Valentina St Belkin, Mike Trizna
Plotting and Programming in Python					Nathan Moore, Allen Lee , So
Programming with R					Daniel Chen , Katrin Leinwe
R for Reproducible Scientific Analysis					Thomas Wright, Naupaka Z Mawdsley

Pedagogikken

- Vennlig atmosfære – alle skal med!!
- Deltakende livekoding
- Feil gjøres (noe som er bra!)
- Peers teaching peers
- Post it lapp system
- Instruktører og hjelpere
- Kontinuerlig feedback
- Utfordringer og quizzer
- Minimerer mengde kursinnhold
- Felles notater - Etherpad



For employees

[All content](#)[Work support](#)[Research support](#)[Research data](#)[Training](#)[Carpentry](#)

Carpentry@UiO



Carpentry@UiO

The Carpentries is a volunteer organisation teaching foundational coding and data science skills to researchers worldwide.

At the University of Oslo (UiO) Software Carpentry, Data Carpentry, and Library Carpentry workshops are offered to graduates and researchers from all faculties and units to facilitate sharing and re-using of data.

Upcoming events

24 [Carpentry: Unix Bash Shell for beginners](#)
Apr. 9:00 AM, Niels Henrik Abels Hus, room UE26

03 [Carpentry: Unix Bash Shell for advanced beginners](#)
May 9:00 AM, Vilhelm Bjerknes hus, room 123

[See all upcoming workshops](#)



Welcome to Oslo Carpentry Study Group!

**LET'S MEET AND WORK
TOGETHER**

[TELL ME MORE](#)

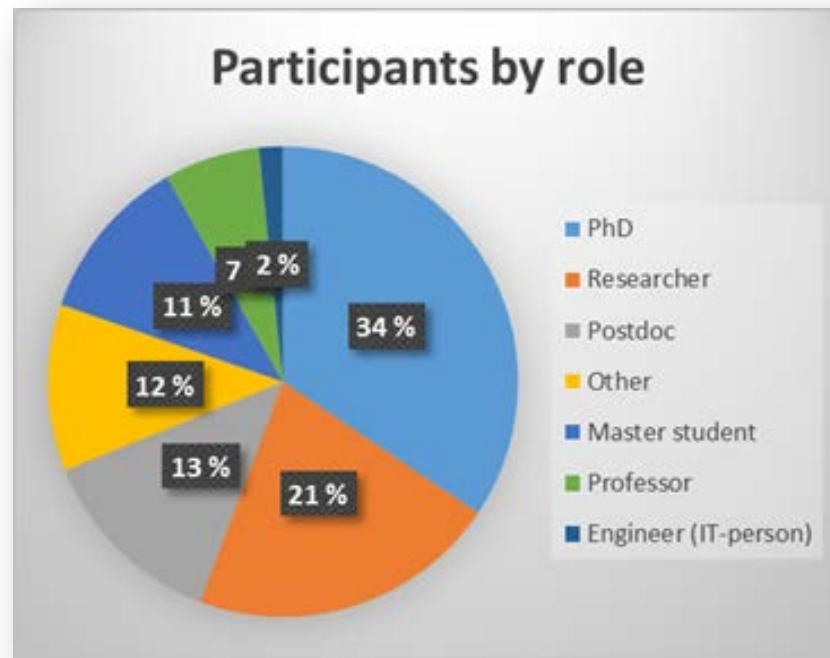
Litt statistikk...

Carpentry@UiO høst 2018

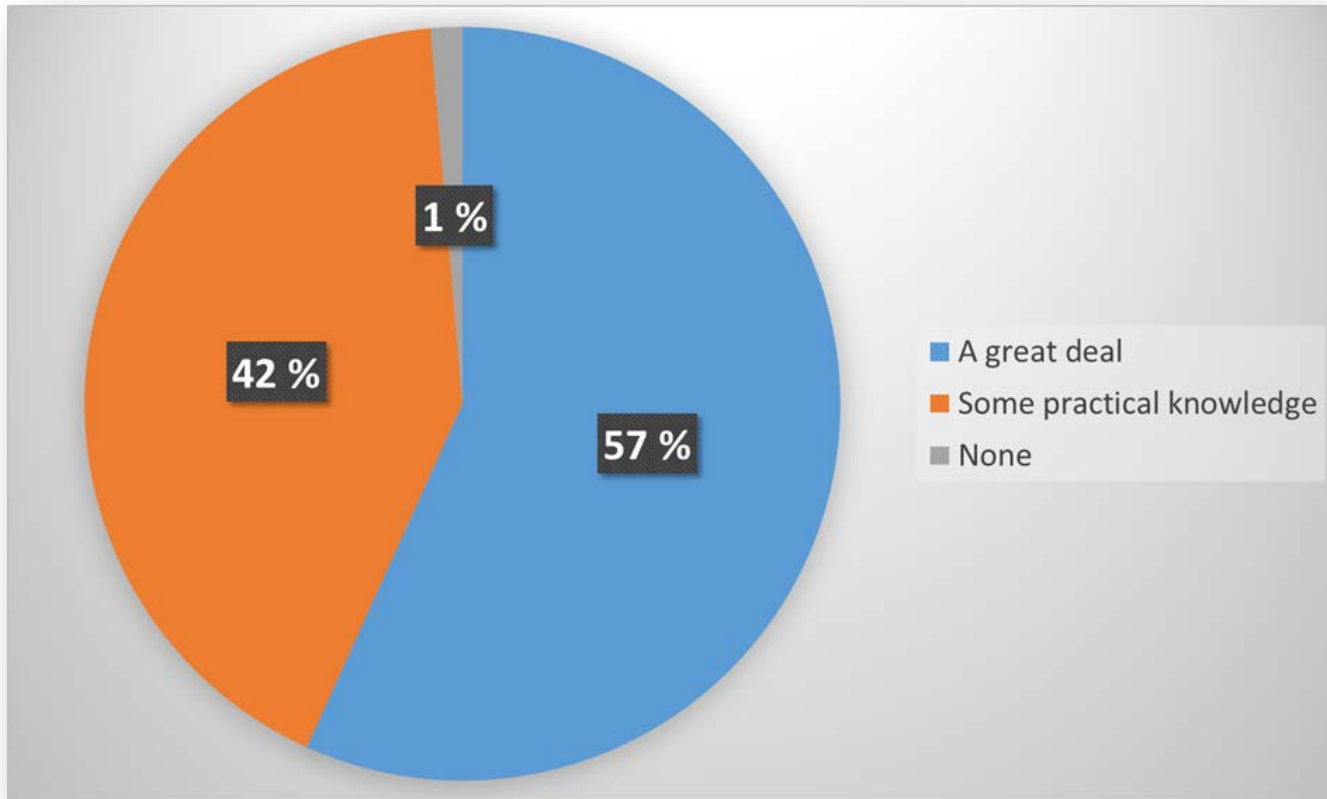
- 8 kurs
- Plass til 200 deltakere(ish)
- 317 påmeldinger – inkl. ventelister – veldig populært!
- Anvendt Python og R er mest etterspurte temaer

Participants and capacity

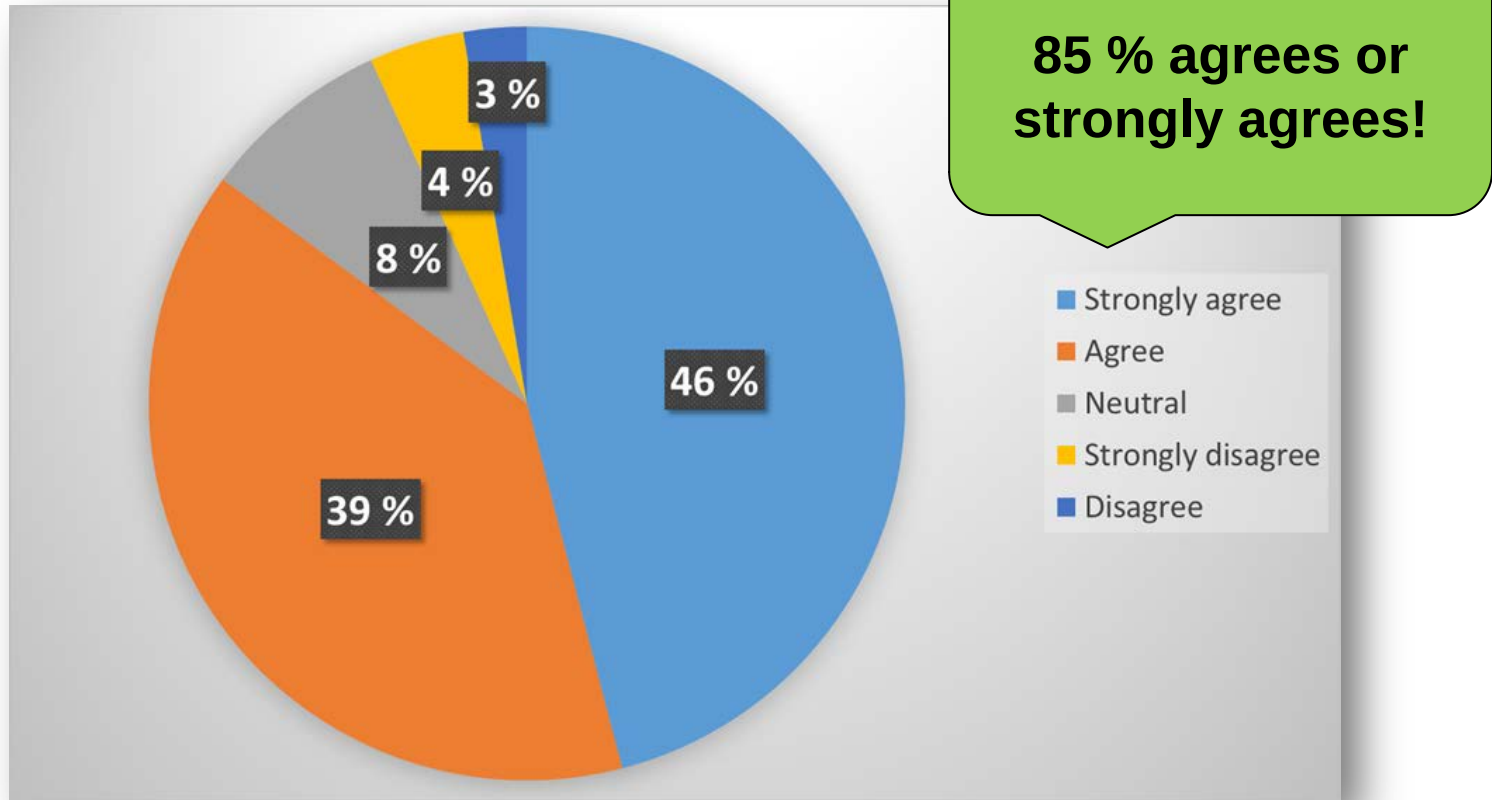
- **75 % researchers**
 - 34 % PhD student
 - 21 % researcher
 - 13 % postdoc
 - 7 % professor
- **11 % master students**
- **14 % Other + engineers**



2. How much practical knowledge did you gain from this workshop?



5. I would recommend this workshop to a friend or colleague.



RESEARCH BAZAAR, 2019

SKILLS SHARING - DIGITAL LITERACY - RESEARCH COLLABORATION

COME JOIN US





Research Bazaar 2019: Get smart with research data

The Research Bazaar is a worldwide festival for researchers, by researchers, aimed to help make research faster, smarter and better. The focus is on digital skills and tools important for modern-day research.

Time and place: Jan. 8, 2019 9:00 AM - Jan. 11, 2019 4:00 PM, University Library of Oslo



The theme chosen for 2019 is:

Go to www.menti.com and use the code 64 74 68

What is deep-learning?

10

- math
- computer
- programming
- statistical analysis
- coding
- using multiple layers
- good with real explanation
- neuron based comp decision
- good with prediction
- a ml algorithm
- method
- automation



Role

Svar	Antall	Prosent
Master student	8	12,5 %
PhD	27	42,2 %
Postdoc	6	9,4 %
Researcher	7	10,9 %
Professor	2	3,1 %
Librarian	2	3,1 %
Engineer (IT-person)	6	9,4 %
Other	6	9,4 %

What did you learn?

2. How much practical knowledge did you gain from this workshop?

Svar	Antall	Prosent
A great deal	36	56,2 %
Some practical knowledge	28	43,8 %
None	0	0 %

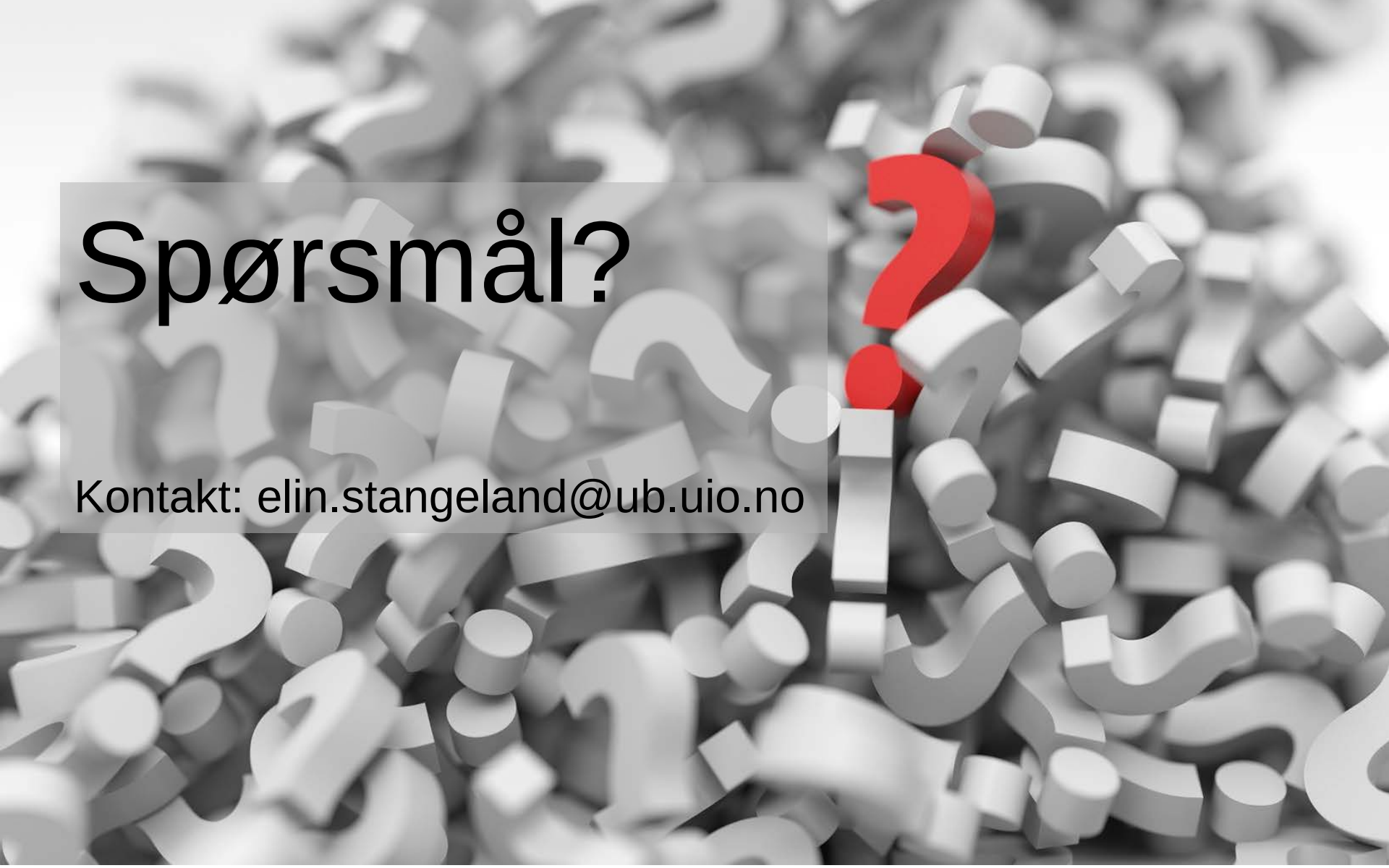
5. I would recommend this workshop to a friend or colleague.

Svar	Antall	Prosent
Strongly disagree	0	0 %
Disagree	0	0 %
Neutral	7	10,8 %
Agree	28	43,1 %
Strongly agree	30	46,2 %



Kilder:

- The fourth paradigm: <https://www.microsoft.com/en-us/research/publication/fourth-paradigm-data-intensive-scientific-discovery/>
- Dataeksplosjonen, UiO rapport: https://www.uio.no/for-ansatte/arbeidsstotte/fa/forskningsdata/2015-10.05_nettsider.pdf
- The Carpentries: <https://carpentries.org/>
- Carpentry@UiO: <http://uio.no/carpentry>
- Research Bazaar: <https://resbaz.github.io/resbaz2019/>
- Research Bazaar 2019, UiO: <https://www.ub.uio.no/english/courses-events/events/all-libraries/2019/research-bazaar-2019.html>



Spørsmål?

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