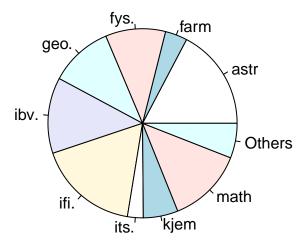
Survey

Geir Storvik 11/27/2018

Analysis of survey for Computational Science and Data Science

Distribution over units



A total of 185 participated in the survey with most interest at Astro, Physics, GeoScience, Ifi and Math. Others include Simula, Sintef, SV-fak, MED-fak and some students.

Table of importance of DS vs CS

##	(CS					
##	DS	Not	important	${\tt Somewhat}$	important	Very	important
##	Not important		10		3		8
##	Somewhat important		4		13		35
##	Very important		7		22		82

As expected, mainly those at least somewhat interested in either Data Science or Computational science did respond on the survey. A large percent answered that both topics are very important!

Importance distributed over units, first DS and then CS

##							
##		Not	important	${\tt Somewhat}$	important	Very	important
##	astr		2		7		23
##	farm		1		3		3
##	fys.		3		5		11
##	geo.		0		8		12
##	ibv.		1		10		13
##	ifi.		4		5		23
##	its.		0		2		3
##	kjem		3		4		4
##	math		7		6		11

##	Others		0		2		9
##							
##		Not	${\tt important}$	${\tt Somewhat}$	important	Very	important
##	astr		0		1		31
##	farm		1		4		2
##	fys.		1		2		15
##	geo.		0		2		18
##	ibv.		2		9		13
##	ifi.		8		7		17
##	its.		1		0		4
##	kjem		1		3		7
##	math		6		7		11
##	Others		1		3		7

If Data Science/Computational science plays a role in your work, are you involved in

```
##
##
                                astr farm fys. geo. ibv. ifi. its. kjem math
##
     Apply DS/CS to new probl
                                   21
                                              10
##
     New method. in CS
                                    8
                                               3
                                                    3
                                                          0
                                                               6
                                                                          2
                                                                               8
                                         0
                                                                     0
                                               2
                                                                          2
##
     New method. in DS
                                    3
                                         0
                                                    3
                                                               9
                                                                               10
##
##
                                Others
##
     Apply DS/CS to new probl
##
     New method. in CS
                                      2
     New method. in DS
                                      3
##
```

At most departments, applying DS/CS methodology is the main focus. Devoloping methodology has more focus on IFI and MI, but also at Astro!

Supervision of master students, first DS, then CS

```
##
##
                      astr farm fys. geo. ibv. ifi. its. kjem math Others
##
                                                7
##
     To some extent
                        14
                               4
                                     7
                                                9
                                                    14
                                                           0
                                                                 4
                                                                     11
                                                                              3
##
                                                           3
     Very
##
##
                      astr farm fys. geo. ibv. ifi. its. kjem math Others
##
                         6
                                     5
                                          2
                                                9
                                                    13
                        14
                                                                 7
##
     To some extent
                               4
                                     9
                                                9
                                                    12
                                                           0
                                                                     11
                                                                              4
                                         11
                                     4
                                                           3
                                                                              3
##
     Very
                        12
```

Do you think Data Science and/or Computational Science will play an increasing role in your future research? If so, please write a couple of sentences on this.

Most responses are responding that DS or CS will be important in their future research

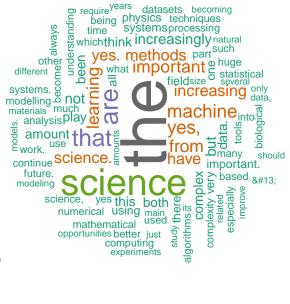
Among 143 responses, 56 mention computing in their response, 94 mention data, 38 both.

Themes that are mentioned are astrophysics, bioinformatics, biology/medicine, buisiness, chemistry, climate, cyber security, database management, ecology, energy, genomics, imaging, geoscience, material science, natural language, robotics, physics, teaching showing that CS/DS are applied in a wide range of topics.

Sveral mention that CS/DS gives the possibility to work with more realistic models.

One specific remark that might be of interest for the CS/DS discussion:

```
##
    [1] "My field of research is Comp. Science. That do involve big data."
##
    [2] "Methods (machine learning) for analysing these have always been"
       "and will be very important. 
 Not sure what MATNAT/UiO"
##
##
       "currently is trying to do, but making a distinction between data"
    [5] "science and computational science is for me a bit strange. Machine"
##
##
        "learning is a natural part of computational science. To exclude"
##
        "machine learning from computational science, make no sense. If so,"
##
       "thousands of scientists worldwide will have to redefine what they"
    [9] "are doing. 
 That said, data science and machine learning are"
##
   [10] "often used as synonyms. Of course, machine learning is also part"
##
   [11] "of data science. 
 But for MATNAT/UiO to have two MSc-programs"
##
   [12] "and two research branches covering more or less the same topics do"
   [13] "not make much sense. Instead we should aim at one bigger MSc"
##
   Γ147
        "program and one research topic to promote, for increasing the"
   [15] "chance to be noticed nationally and possibly internationally. That"
   [16] "would mean that some of us researchers would have to accept to use"
   [17] "another word than the one we prefer to describe our activity. I"
   [18] "think that is a small sacrifice compared to what we may gain. In"
  [19] "addition, we may avoid that MATNAT/UiO comes up with new and"
  [20] "Norwegian definitions of internationally well accepted terms. By"
## [21] "that, we could avoid setbacks."
```



Word cloud of text response ("uninteresting" words removed)