



EoS Solstice meeting 2019

Tomas Kello on behalf of EoS PhD students

19.12.2019

ULB, Brussels



Common activities

- regular meetings in our WP groups
- EoS PhD Days 2019 – Louvain La Neuve (**report**)
 - ✓ Progress presentations
 - ✓ Discussion about the future plans and Survey
 - ✓ Workshop: MadGraph
 - ✓ Workshop: Machine learning
- Status & Quality surveys (**report**)
 - ✓ Volume 1: 21.2.2019 (online) – results presented at SB meeting
 - ✓ Volume 2: 12.11.2019 (during EoS PhD Days)
- BND school, CMS DAS school, ...

Feedback on EoS PhD Days 2019

- together ~30 participants, 8 PhD speakers, 4 lecturers
- thanks to the help from UCL locals!
- **PhD presentations**
 - *Mostafa Mahdavi-Khorrami* – Off-shell H decays, tests of Higgs width and anomalous couplings
 - *Tomas Kello* – On-shell $H \rightarrow WW^*$ in ggH and VBF production
 - *Hesham El Faham* - Differential $t\bar{t}H$ multilepton analysis and EFT interpretation with full Run II data
 - *Tu Thong Tran* - Measurement of $t\bar{t}W$ cross-section and charge asymmetry
 - *Khawla Jaffel* - Search for the 2HDM neutral Higgs bosons through the $H \rightarrow ZA \rightarrow llbb$ process Full Run II
 - *A.R. Sahasransu* – Displaced particles
 - *Liam Weyenbeek* – Searches for SUSY and HNL in multilepton final states with τ_h
 - *Florian Bury* - MoMEMta and Deep Neural Networks, a method to produce Matrix Element weights for LHC analyses

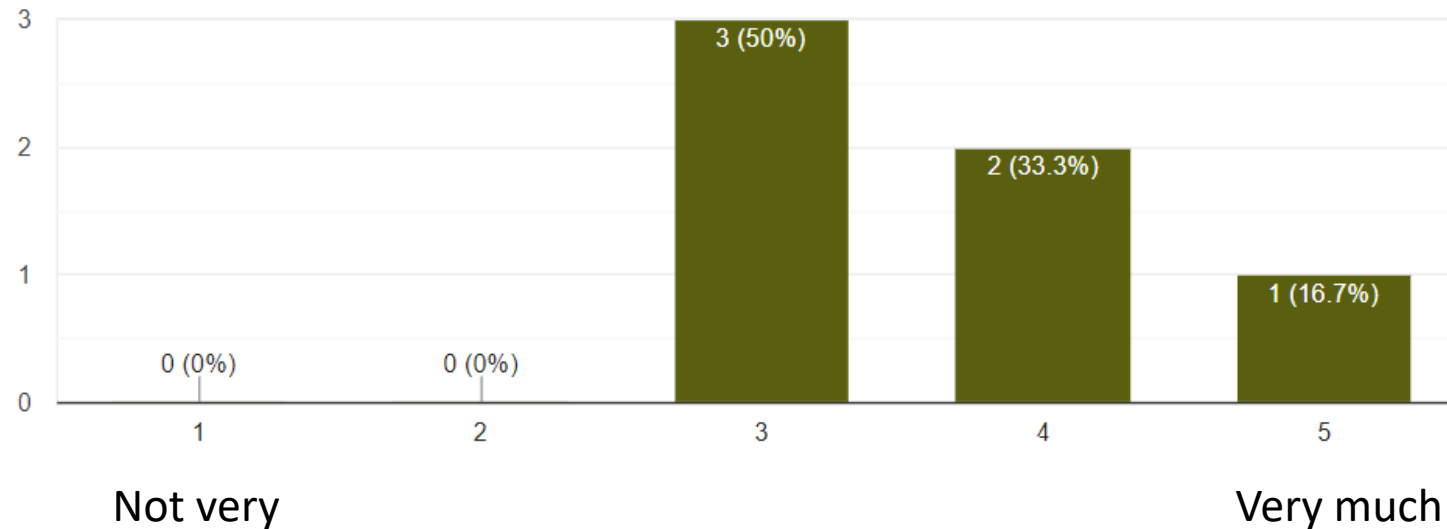
<https://agenda.irmp.ucl.ac.be/event/3738/timetable/#20191112.detailed>

Feedback on EoS PhD Days 2019

- **PhD@be.h Status&Quality Survey Vol.2**

[First day] Do you think that answering an anonymous questionnaire about PhD's problems/needs/compliments will address the right people and help problems solved?

6 responses



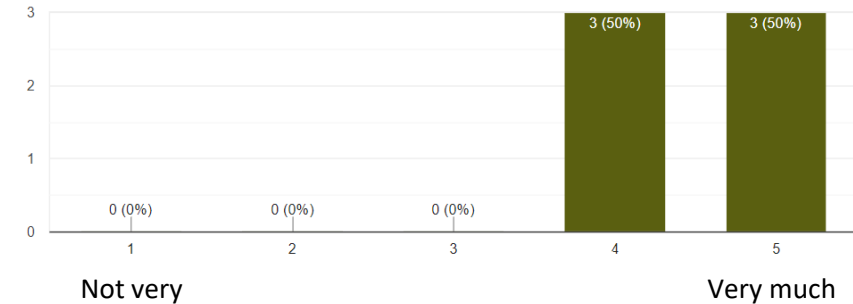
Feedback on EoS PhD Days 2019

- **Discussion about the future plans**

- importance of outsourcing organization duties was stressed
- call for more one-day workshops – a.k.a. lectures on demand
 - (advanced) statistics – looking for lecturers
 - more of Machine learning – looking for lecturers
 - programming skills – specific demands need to be found
 - soft skills – redirected to doctoral schools offer (but also possible to organize)
 - accelerator physics
 - ...
- involving PhD students and postdocs in small projects which offer hands-on experience (also outside the strictly academic sphere), such as MYRRHA project
- Status&Quality Survey Vol.3 (around summer 2020)
- EoS PhD Days 2020
- establish better communication channel

[First day] Have you found useful to discuss future activities involving PhD students?

6 responses

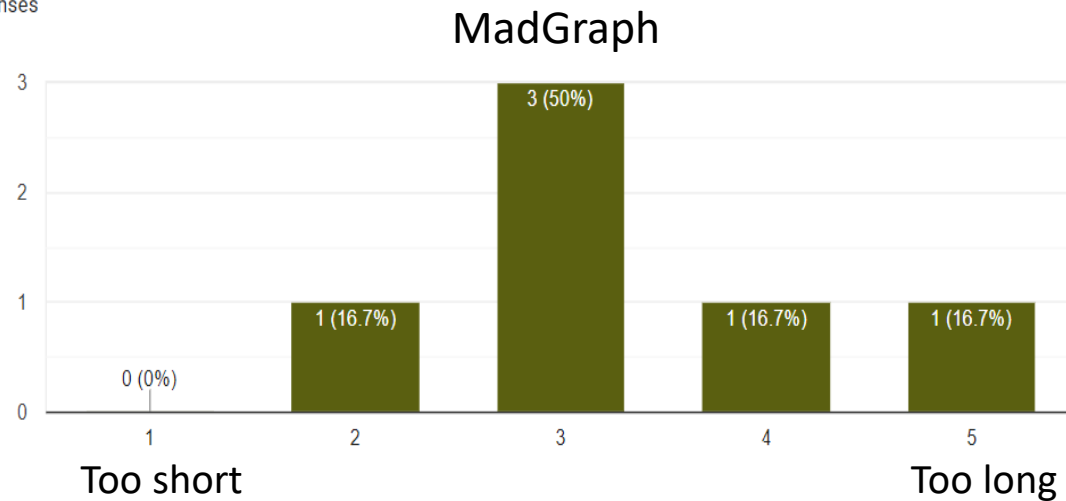


Feedback on EoS PhD Days 2019

- **Workshops**
 - theoretical part

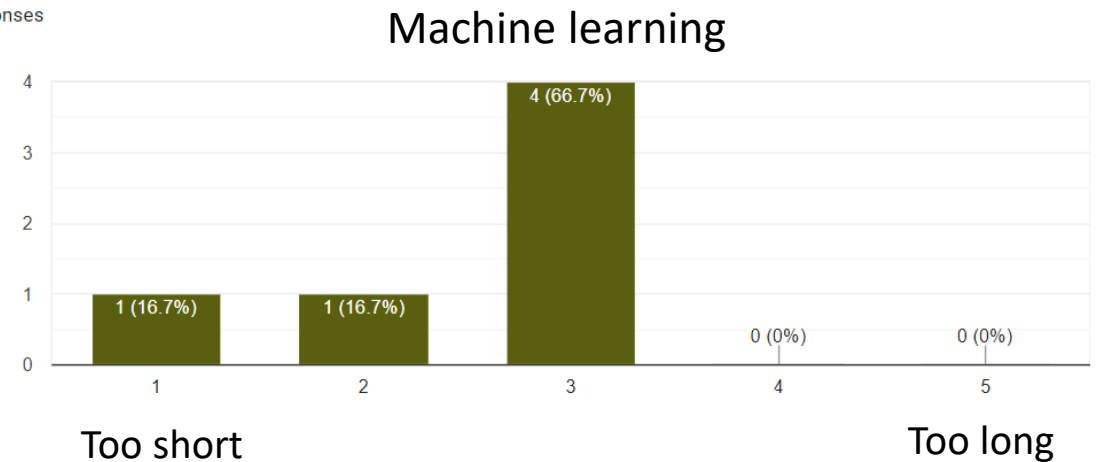
[Second day] Was the MadGraph theoretical introduction too long/ too short?

6 responses



[Third day] Was the Machine learning theoretical introduction too long/ too short?

6 responses



Feedback on EoS PhD Days 2019

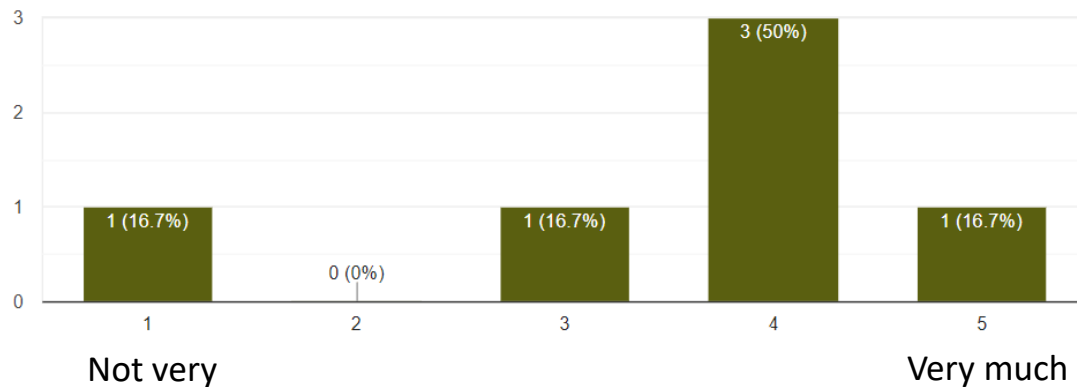
- **Workshops**

- theoretical part
- exercises
- ‘Peers to peers’ model of lectures worked out very well!
- many thanks to all of the lecturers

[Second day] How useful were exercises prepared for the MadGraph workshop?

6 responses

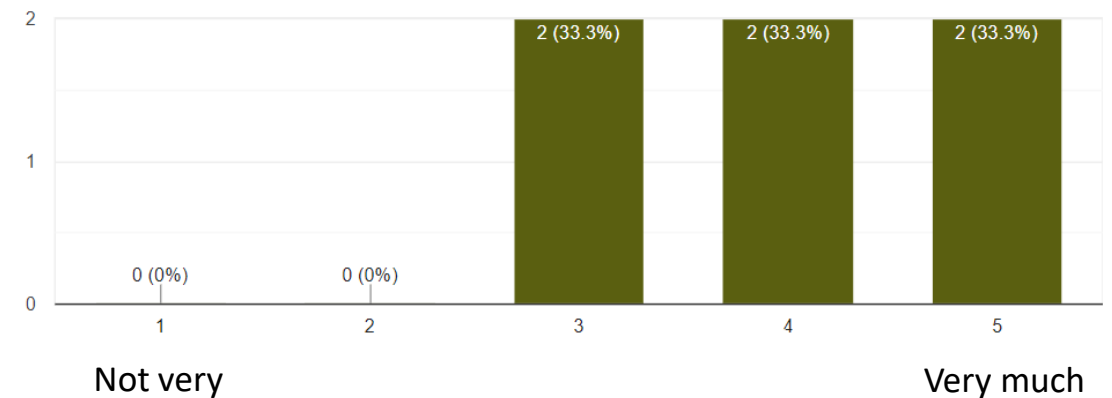
MadGraph



[Third day] How useful were the exercises prepared for the Machine learning workshop?

6 responses

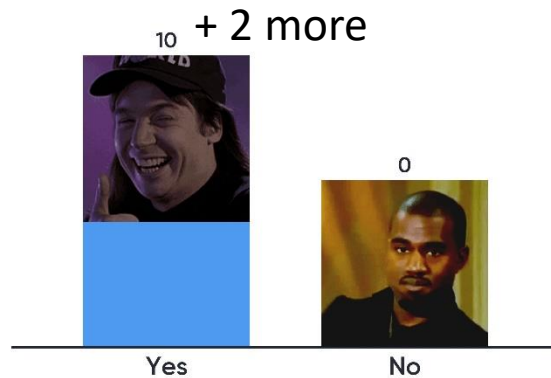
Machine learning



Results of Status&Quality Survey Vol.1 and Vol.2

Have you participated in the Status and Quality Survey Vol. 1?

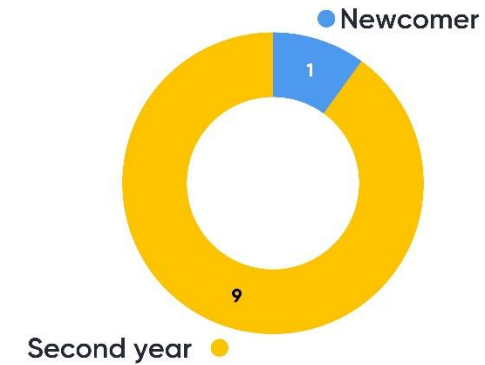
Mentimeter



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Which year of your PhD have you just started?

Mentimeter

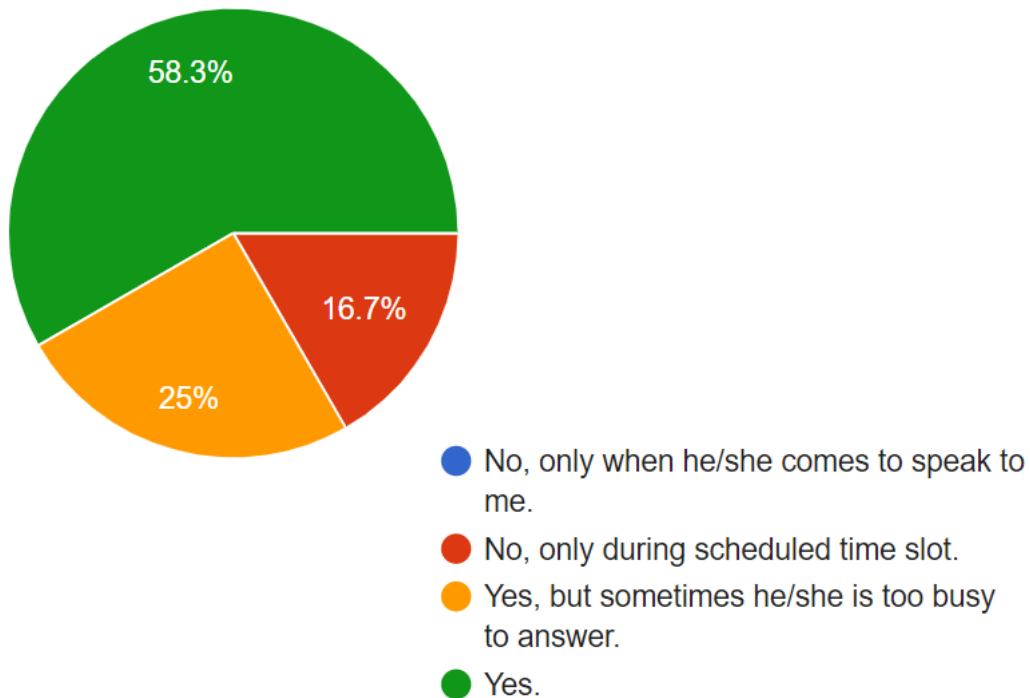


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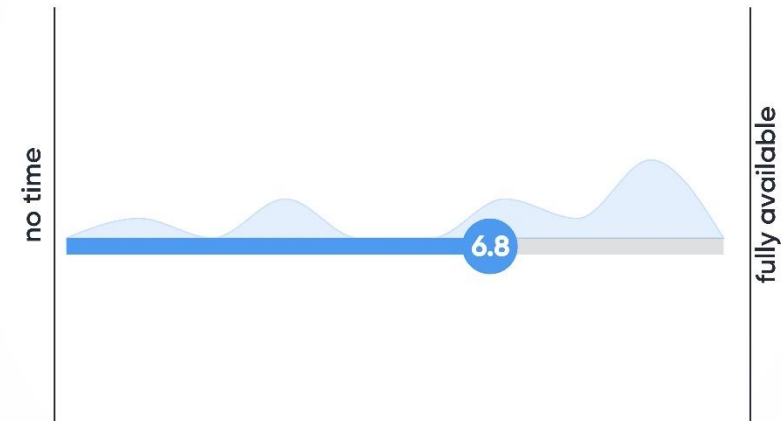
Results of Status&Quality Survey Vol.1 and Vol.2

- **PhD student Vs. supervisor**

Can you come and ask your supervisor for help
whenever you need it? (during office hours)



On the scale from 1 to 10: How many times do you
succeed to find your supervisor available?

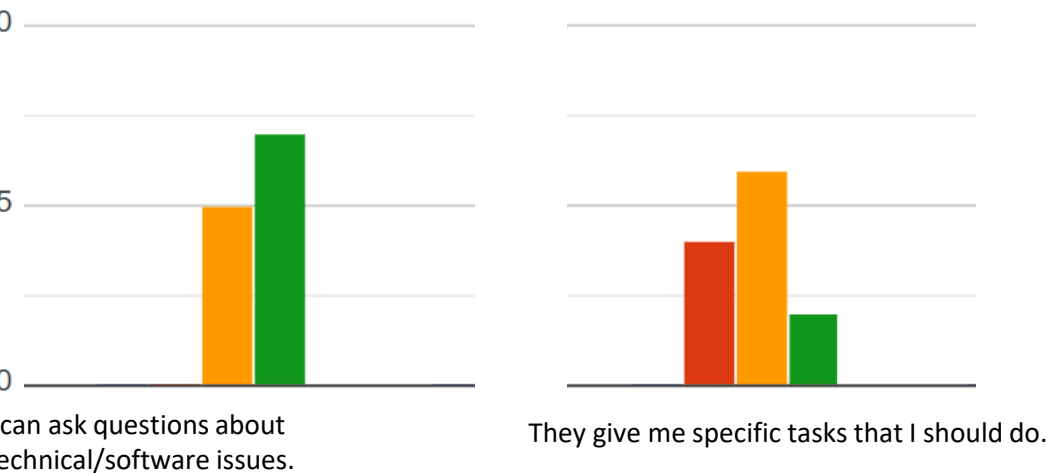


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Results of Status&Quality Survey Vol.1 and Vol.2

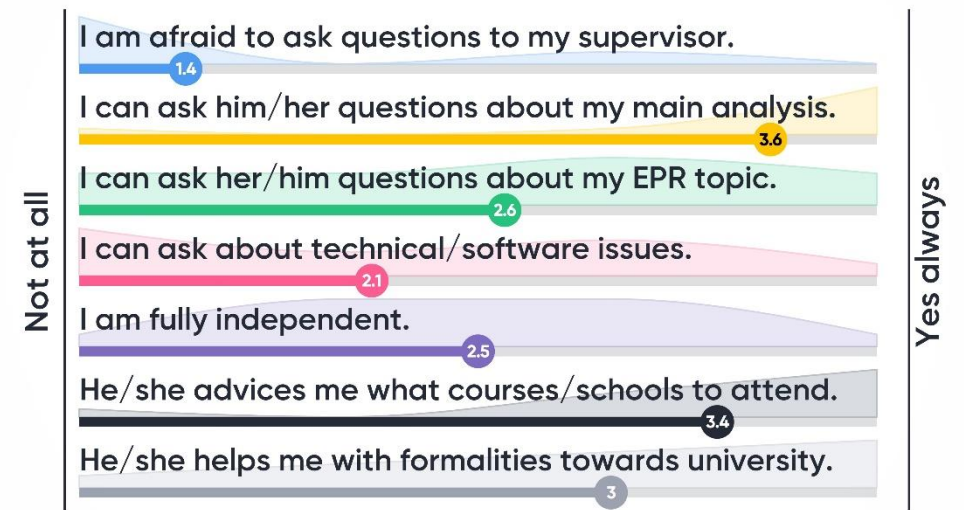
- PhD student Vs. supervisor

■ Not at all.
 ■ Not entirely.
 ■ Sometimes yes.
 ■ Yes, always.



Rate these statements from 1 to 4:

Mentimeter



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Results of Status&Quality Survey Vol.1 and Vol.2

- PhD student Vs. supervisor

Describe your relationship with your supervisor in 3 words:



10

Mentimeter

Prioritize the best skills of every supervisor:

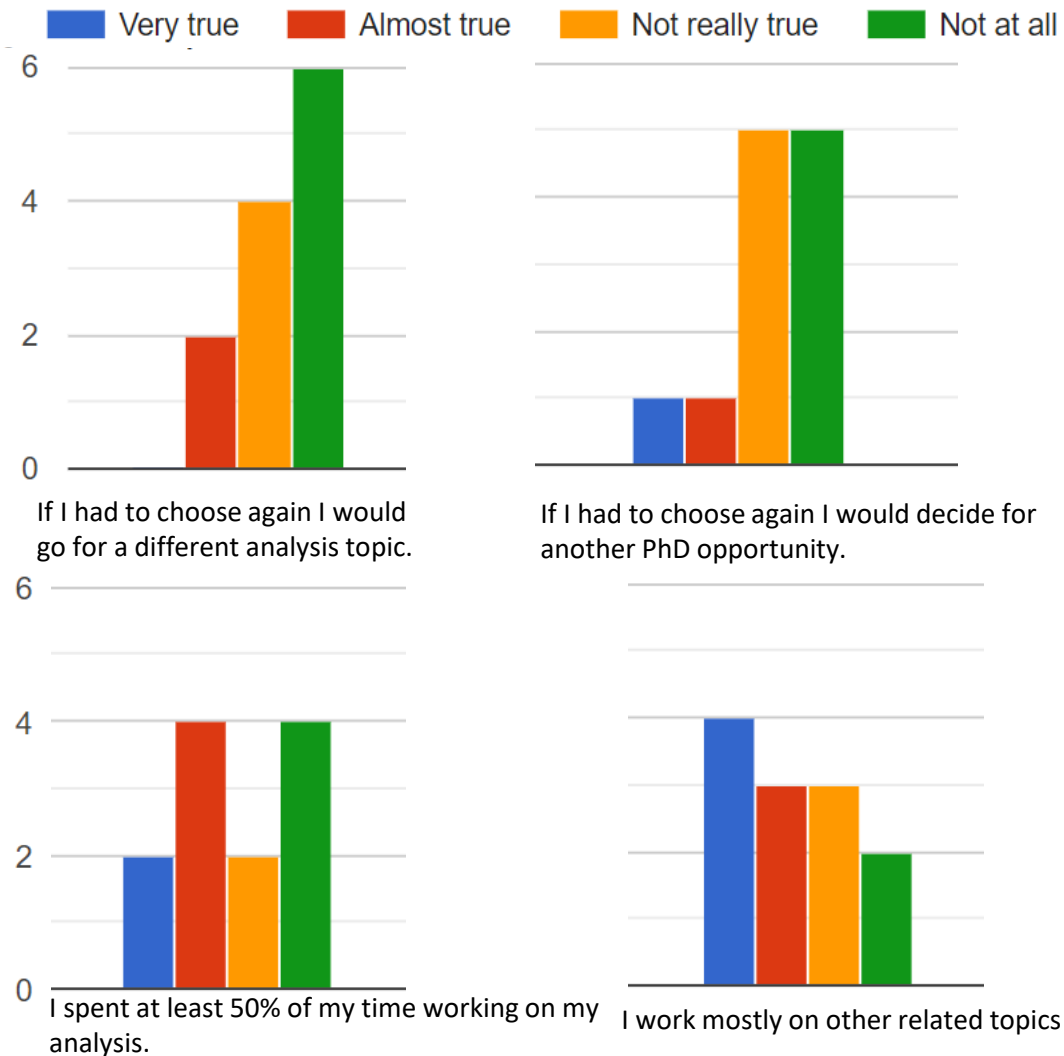
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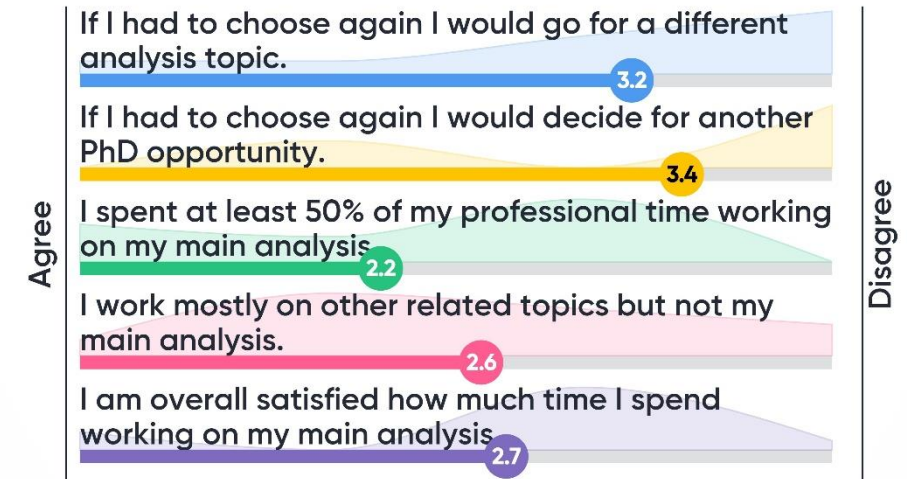
Results of Status&Quality Survey Vol.1 and Vol.2

• PhD student Vs. analysis



Are you satisfied with your choice to join be.h EOS program?

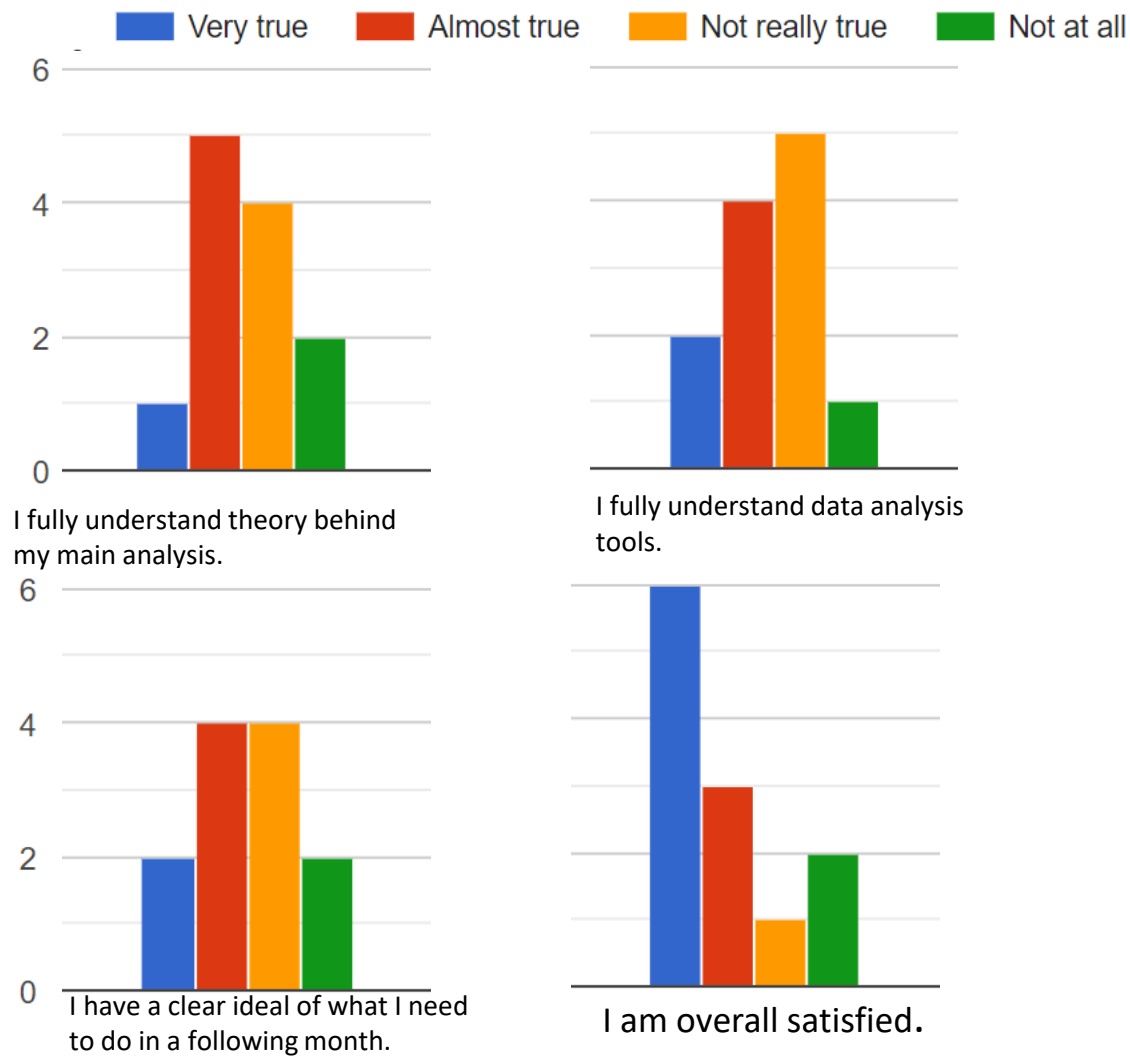
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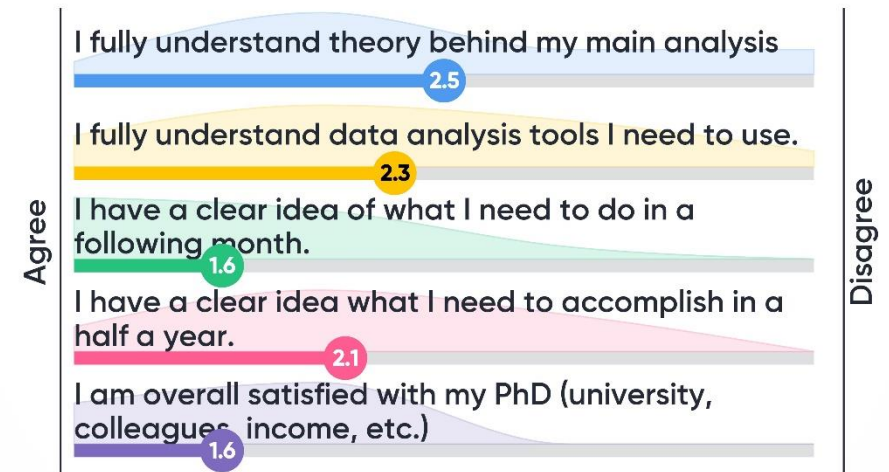
Results of Status&Quality Survey Vol.1 and Vol.2

• PhD student Vs. analysis



Are you satisfied with your choice to join be.h EOS program?

Mentimeter

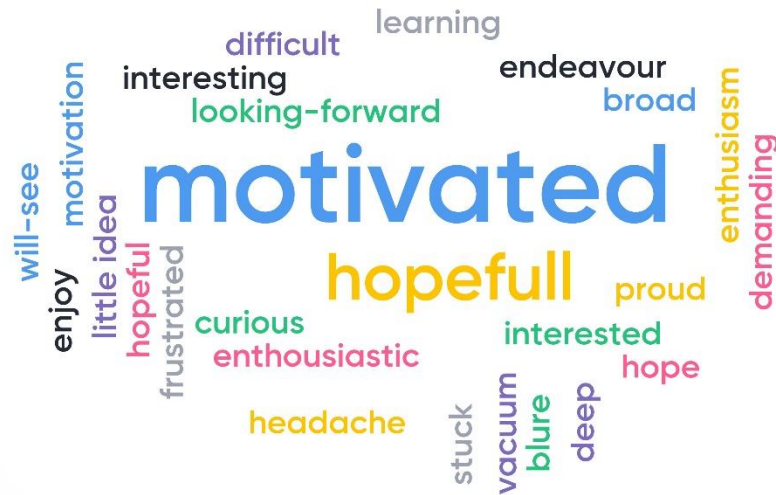


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Results of Status&Quality Survey Vol.1 and Vol.2

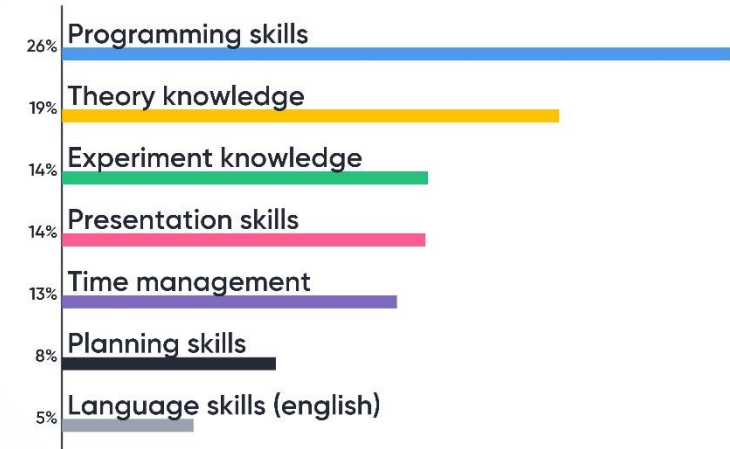
- PhD student Vs. analysis

Describe your attitude towards your main analysis in 3 words:



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Prioritize the skills you would like to improve on yourself:



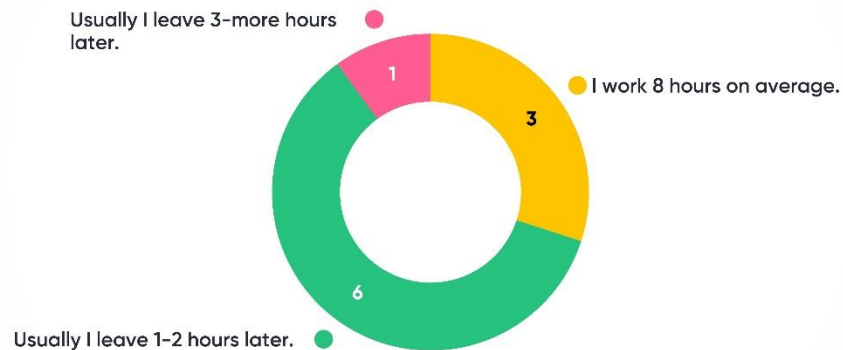
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Results of Status&Quality Survey Vol.1 and Vol.2

- PhD student Vs. free time

Do you work overtime?

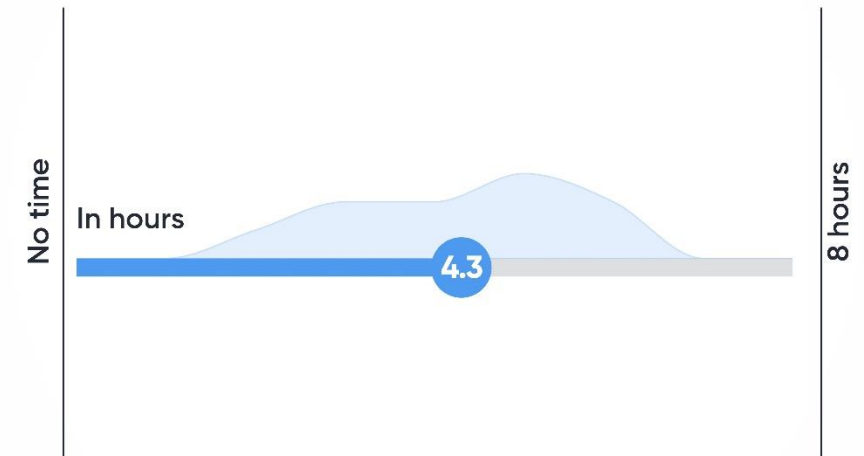
Mentimeter



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How much free time do you have?

Mentimeter

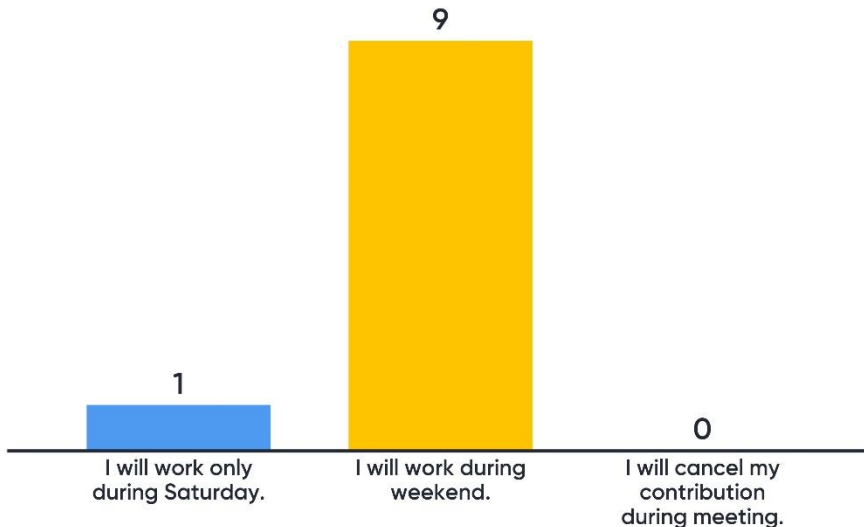


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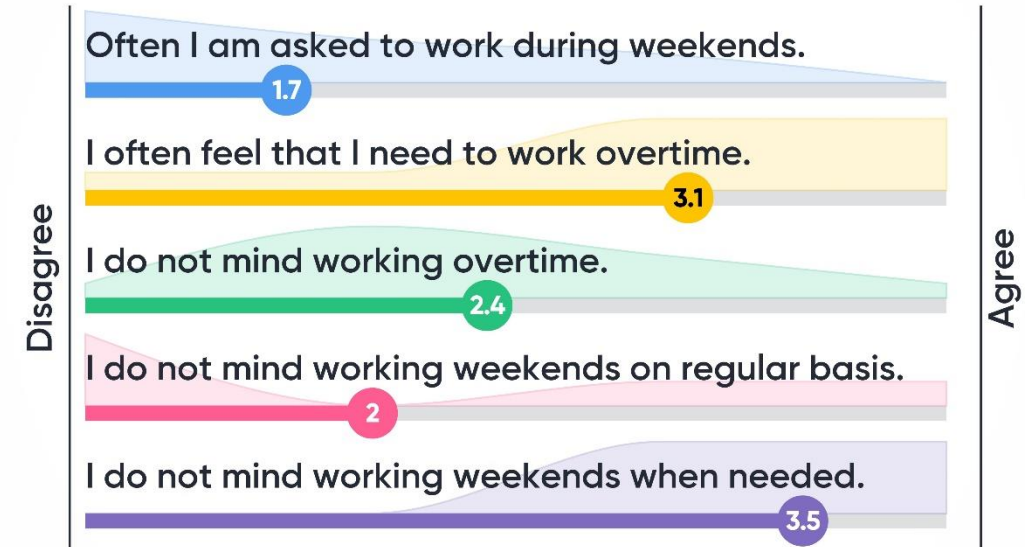
Results of Status&Quality Survey Vol.1 and Vol.2

- PhD student Vs. free time

There is a meeting on Monday. You can't make it on time....



Working too much?



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Summary

EoS PhD Days 2019

- Overall successful PhD Days, however still a lot to improve
- Expected more help in organization both from other PhDs and management
- Presence of senior researchers and professors on the first day (dedicated to presentations, feedback and discussion) was minimal (thank you to those who came!)
- Fruitful discussion of new plans and activities

Survey results

- Hope to address right people and show that we all (students) are sharing the same problems
- Not too much has changed compared to the first survey
- Next survey to be carried out around summer/autumn