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Author(s): Jacob, Romain; Kuzmanovska, Irena; Ripin, Nina

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AVETH, SOL B 7, Sonneggstrasse 33 ETH Zürich, CH-8092 Zürich Tel. +41 44 632 42 93, Fax. +41 44 632 10 20 info@aveth.ethz.ch www.aveth.ethz.ch

AVETH Survey on Supervision of Doctoral Students

April 2018

Romain Jacob*, Irena Kuzmanovska and Nina Ripin

*corresponding author: jacobr@ethz.ch



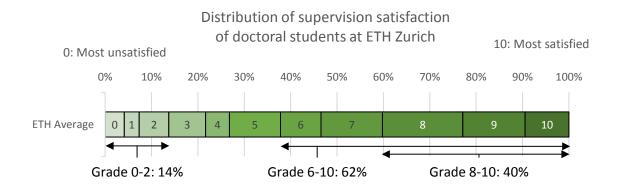
Abstract

Good supervision is a key factor for the success of doctoral studies. But there are multiple good ways. Depending on the field of studies, the supervisor 'style', and the students' specific needs, multiple approaches can lead to good results. This variety of supervision contexts makes it difficult to have an overview of the supervision practices, and their actual impact on students' satisfaction.

Thus, in fall 2017, AVETH conducted a survey on the doctoral supervision practices at ETH Zurich, with two objectives: (i) draw a picture of the actual supervision practices at ETH, and (ii) investigate the doctoral students' satisfaction with respect to their supervision and the impact of specific practices. Based on 1'594 completed survey answers (corresponding to a response rate of ~36%) this report summarizes the findings.

It appears that 62% of doctoral students are generally satisfied (Grade 6 and above – See figure below) and 40% are very satisfied (Grade 8 and above) with their supervision. However these numbers vary a lot across departments. Furthermore, there are relations between satisfaction and (i) the number of years of the doctoral thesis, (ii) the opportunities for scientific interactions (both within and outside of the group), and (iii) formal or informal appraisal interviews. Finally, 24% of the survey respondents stated that they experience some kind of 'abuse of power' from their supervisor, ranging from lack of scientific freedom to pressure to work long hours or on weekends.

This survey offers a factual description of supervision practices at ETH Zurich and raises some alert flags on practices, which should be monitored and/or prevented. Using this new information, AVETH will work together with the ETH School Board to *propose a set of 'supervision guidelines'*, which will hopefully contribute to improve everyone's situation at ETH.



Each box represents a grade from 0: 'Most unsatisfied' to 10: 'Most satisfied'. The size of the box is proportional to the share of answers.



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DS: Doctoral students

Departments of ETH: In the present analysis, only the answers of DS employed in one of the ETH departments (Table 1) were considered for the quantitative analysis, unless explicitly mentioned otherwise.

| Short name | Department name |
|------------|---|
| ARCH | Architecture |
| BAUG | Civil, Environmental and Geomatic Engineering |
| BSSE | Biosystems Science and Engineering |
| BIOL | Biology |
| CHAB | Chemistry and Applied Biosciences |
| ERDW | Earth Sciences |
| GESS | Humanities, Social and Political Sciences |
| HEST | Health Sciences and Technology |
| INFK | Computer Science |
| ITET | Information Technology and Electrical Engineering |
| MATH | Mathematics |
| MATL | Materials Science |
| MAVT | Mechanical and Process Engineering |
| MTEC | Management, Technology and Economics |
| PHYS | Physics |
| USYS | Environmental Systems Science |

Table 1: ETH Departments



1 Introduction

1.1 Why this survey?

The survey was conducted by the <u>AVETH Politics Team</u>, a discussion and working platform of ETH scientific staff members focusing on ETH politics.

The main goal of the present survey was to summarize the situation of the supervision and guidance doctoral students from ETH receive for their thesis, and their respective feeling about it. Prior to the survey, a list of hypotheses was made regarding doctoral students' supervision; the survey was designed to investigate these hypotheses.

1.2 Statistics of the survey

The survey was started in fall 2017 and sent to 4'444 people registered as DS at ETH from which 1'594 completed answers were received. This corresponds to a response rate of \approx 36%.

When the survey was closed, at the end of 2017, 4'092 ETH DS were affiliated to one of the 16 ETH departments and 352 to one of the external research institutes (Empa, PSI, WSL, Eawag).

Given the few answers received from the second group (66 in total), the quantitative analysis of this survey mainly focusses on the first group. A total of 1'500 completed answers were received from this target group, corresponding to a response rate of 37% (Table 2).

More data and statistics on participants and response rates (incl. data per department) is presented in Appendix II – Significance of the survey data.

| Category | Headcount in fall 2017 | Completed answers received for the survey | Response rate per category |
|--|---------------------------|---|----------------------------|
| ETH doctoral students | 4'444 | 1′594 | 36% |
| ETH doctoral students affiliated to one of the 16 ETH department (used for most of the analysis) | 4′094 | 1'500 | 37% |

| Table | 2: | Survey | answer | statistics |
|-------|----|--------|--------|------------|
| IUNIO | | 04110 | anonor | otatiotioo |



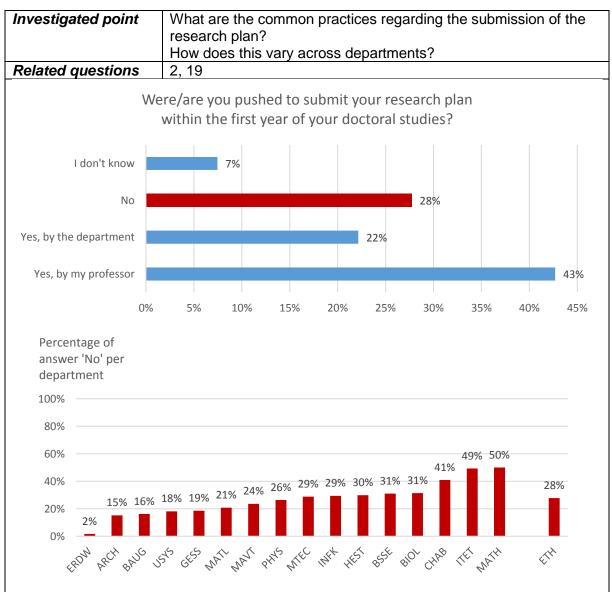
2 Quantitative analysis

This survey investigated five different aspects of doctoral supervision:

- 1. Conducting your research
- 2. Actual supervision, i.e. who really supervises, what forms does the supervision take?
- 3. Personal and career development
- 4. Relationship with supervisors
- 5. Overall satisfaction

All survey questions are reported in Appendix IV – Survey questions. We reuse some of the survey questions as plot titles (when specified).

2.1 Conducting your research

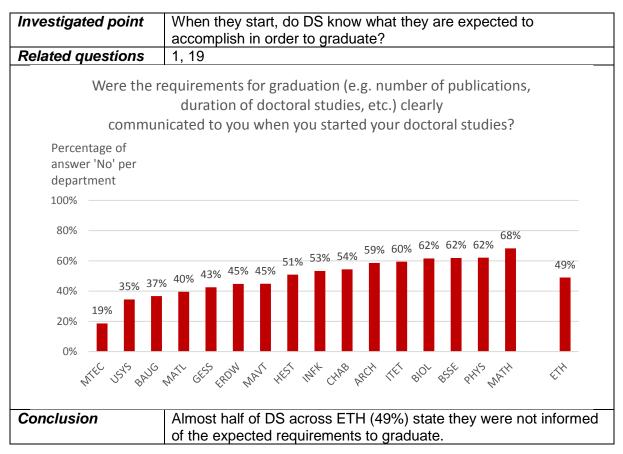




| Conclusion | Almost a third of DS (28% are not pushed to submit a research plan in due time. This varies a lot across departments, from almost zero (ERDW: 2%) to half (ITET: 49%, MATH: 50%). |
|------------|---|
| | On average at ETH, nearly half of DS (43%) are pushed by their professor to submit their research plan in the first year. |

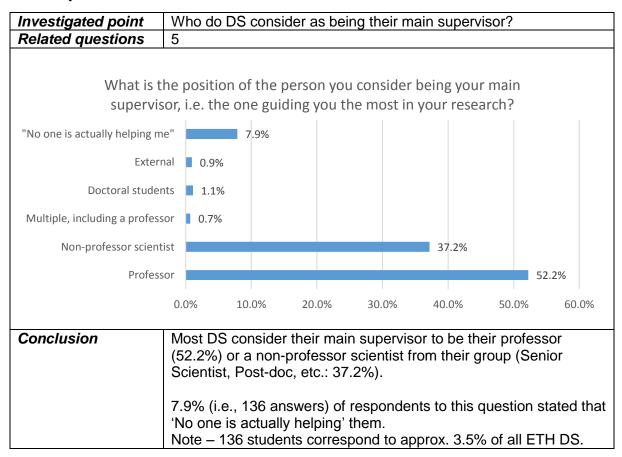
| Investigated point | Do DS think working on and submitting a resea | arch plan is useful? | | | | |
|---|--|---|--|--|--|--|
| Related questions | 2, 3, 19 | | | | | |
| Pressure to sub the Resarch Plai 100% 80% 60% 40% 20% 0% | mit | Average usefulness 10 Most useful 5 Neutral 0 Most useless | | | | |
| | Pressure to submit — Average usefulness | | | | | |
| Conclusion | The usefulness of the research plan is graded across all DS [on a scale from 0 – 'Most useles useful']. Thus, it is considered rather useful. Moreover, there is a positive relation between t submit the research plan and its perceived use students are pushed, the more useful they see | ss' to 10 – 'Most the 'pressure' to efulness: The more | | | | |

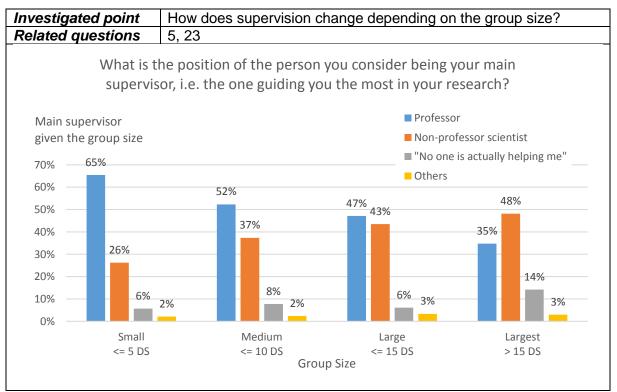






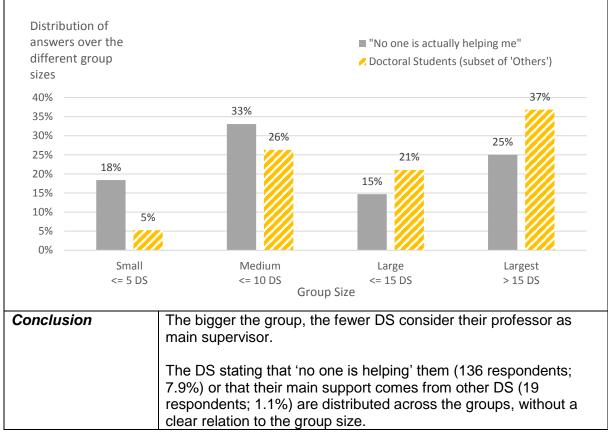
2.2 Actual supervision: who really supervises, what forms does the supervision take?



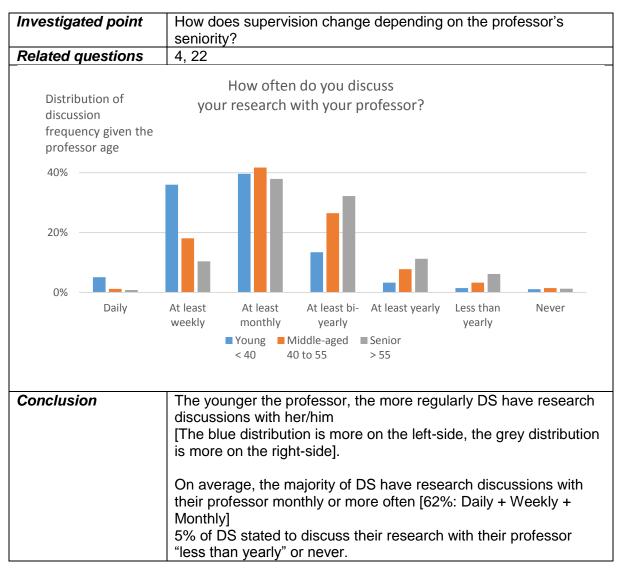




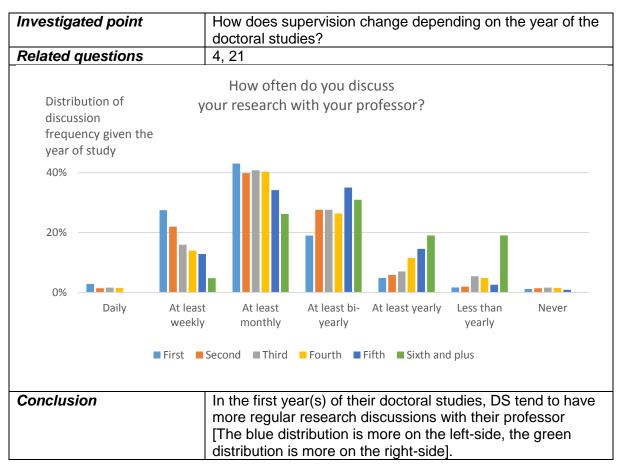
The share of DS stating the "no one is helping (them)" varies between 6 and 14% depending on their group size. However, the number of DS in each group size category varies. Thus, in the following figure, we take look at two answers (DS stating that "no one is helping (them)" or that they are mainly supervised by another DS) and plot their distribution across the group sizes.











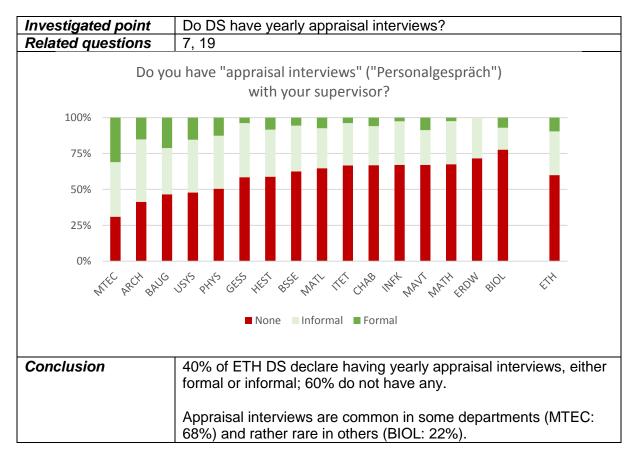


2.3 Personal and career development

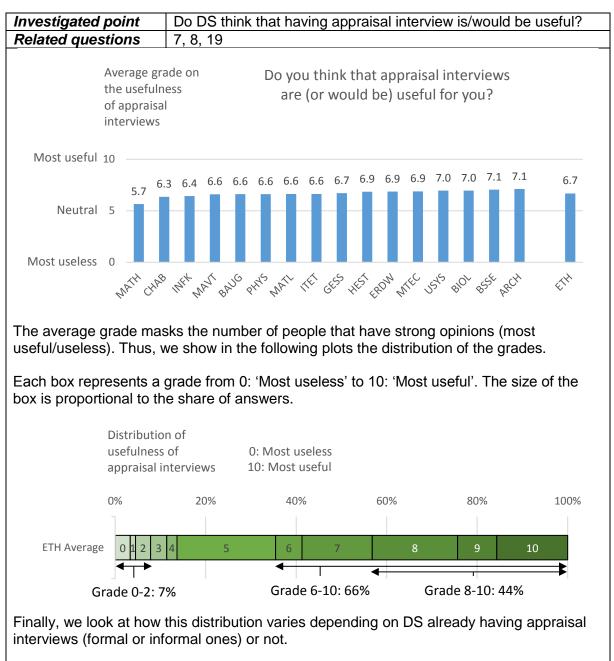
According to the Human Resource services of ETH:

The appraisal interview ("Personalgespräch") offers the chance for both the employee and the supervisor to assess the employee's current performance and work out opportunities for further personal development.

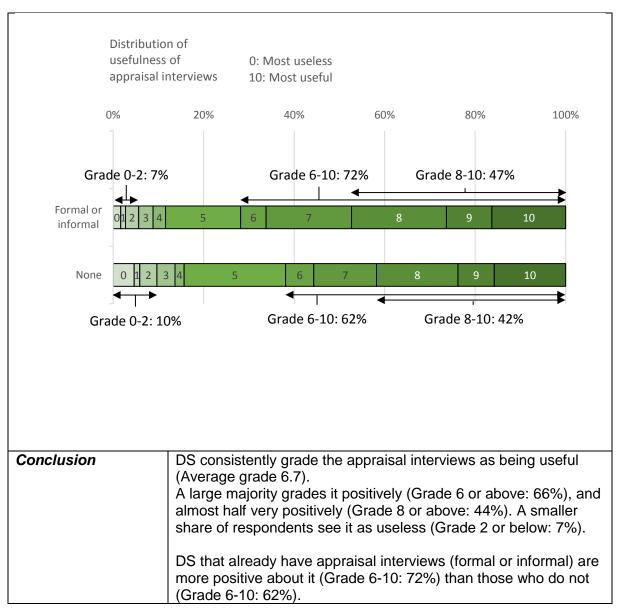
The official <u>appraisal interview form</u> gives a general idea of the objectives of the appraisal interview.



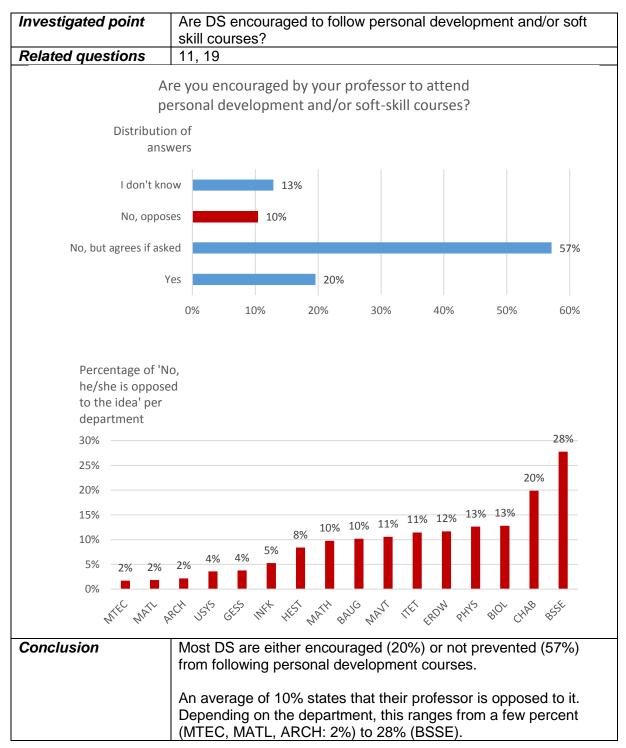




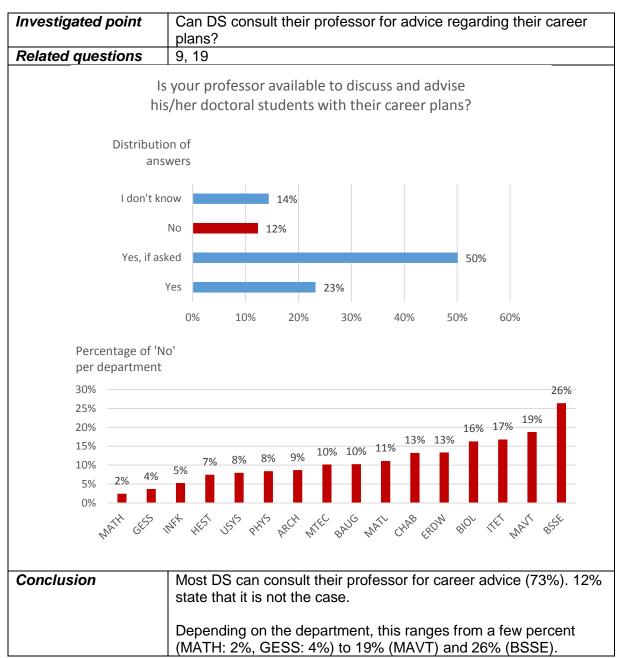




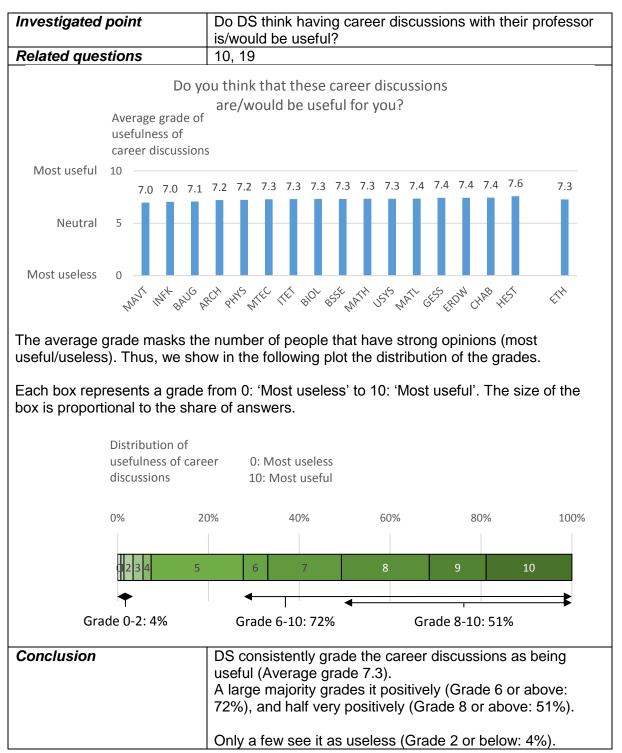




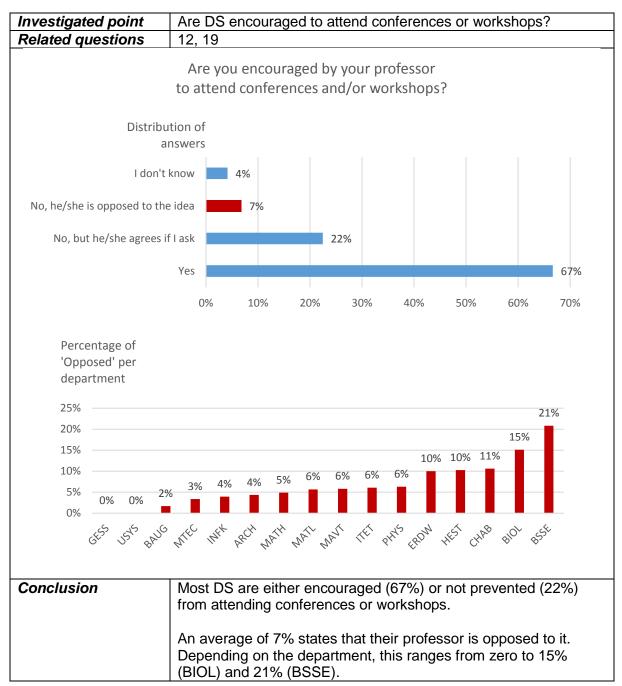












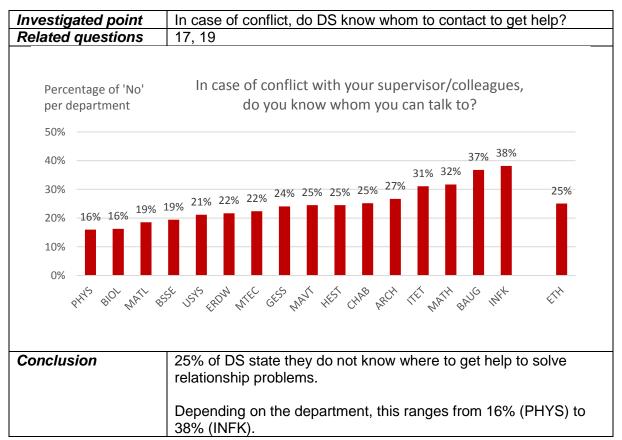


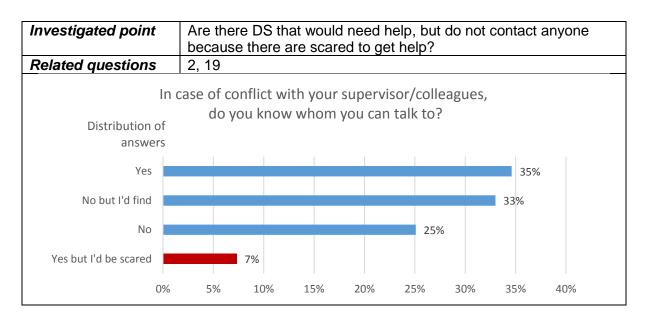
| Investigated point | | | s do not encourage DS to attend | | |
|---|------------------------------|--------|--|--|--|
| | conferences or work | snops? | | | |
| Related questions | 13 | | | | |
| Do you know why you are not encouraged to attend conferences and/or workshops? | | | | | |
| | "It is not worth the time." | | 46.9% | | |
| | "It is too expensive." | | 40.4% | | |
| | 'I have nothing to present." | | 33.4% | | |
| "C | others may steal our ideas." | | 26.9% | | |
| My superv | isor doesn't care about me. | 3.9% | % | | |
| I don't deserve it. / Someor | ne else presents my results. | 3.6% | 6 | | |
| Co | onferences are not worth it. | 2.3% | Answer options (offered by the survey) | | |
| l'r | n expected to be proactive. | 1.6% | Additional answers (from open box) | | |
| Note – Each respondent could tick multiple answers for this question. For each answer, the number given is the percentage of respondents having selected it among those that ticked at least one answer (e.g., 40% of DS that answered this question ticked "it is too expensive"). | | | | | |

| Conclusion | The main reasons why professors oppose DS to attend conferences or workshops are that it is not worth the time (47%) |
|------------|--|
| | or that it is too expensive (40%). |
| | More than a quarter of respondents states that their professor is |
| | afraid of other people stealing their ideas (27%). |

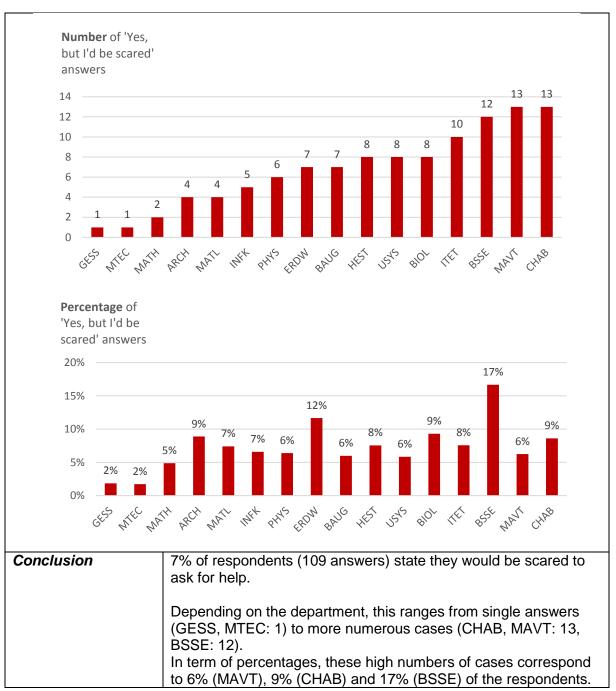


2.4 Relationship with supervisors

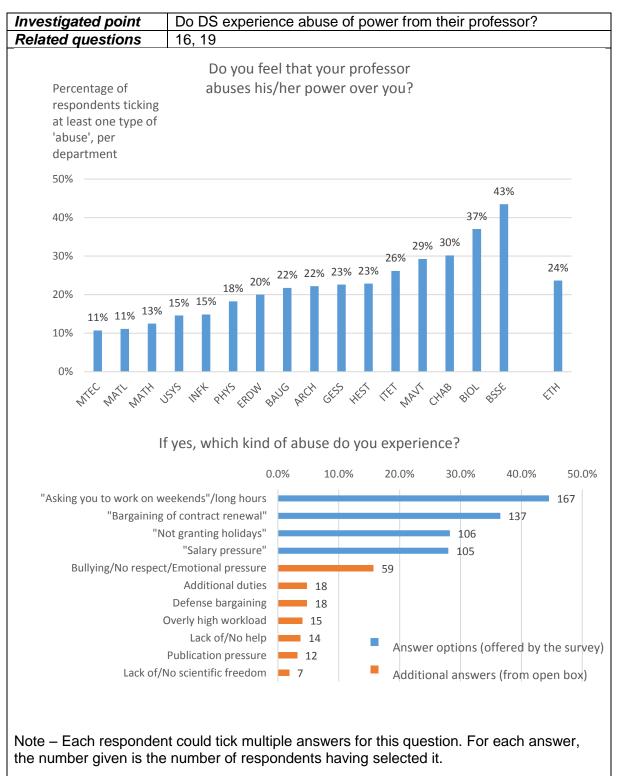




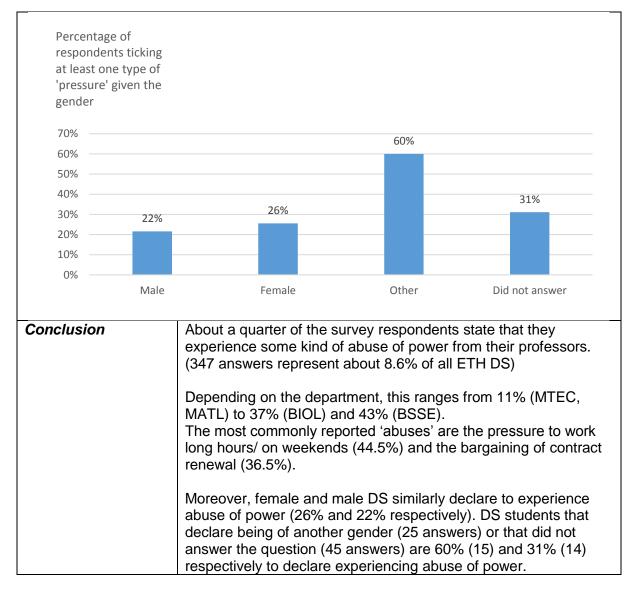




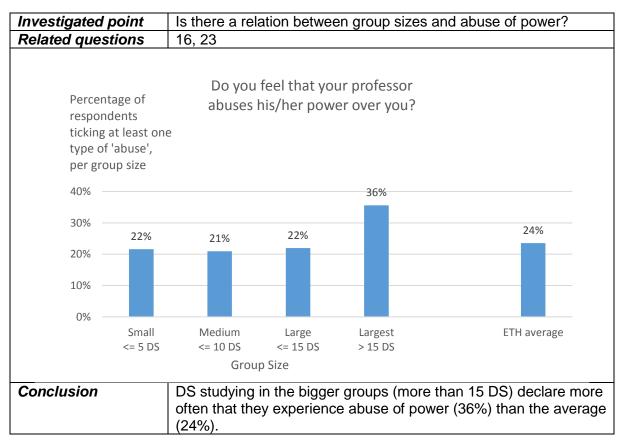






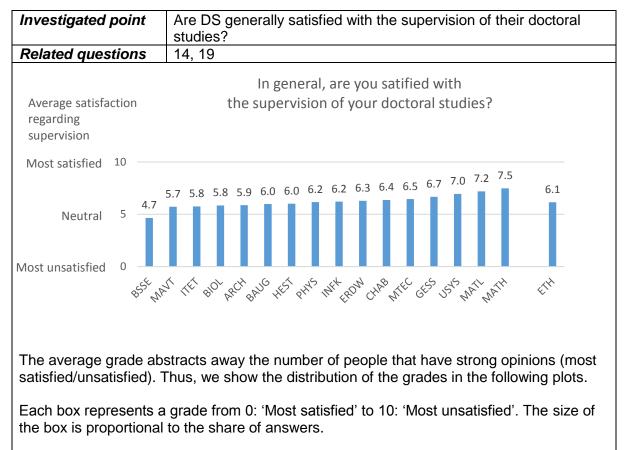






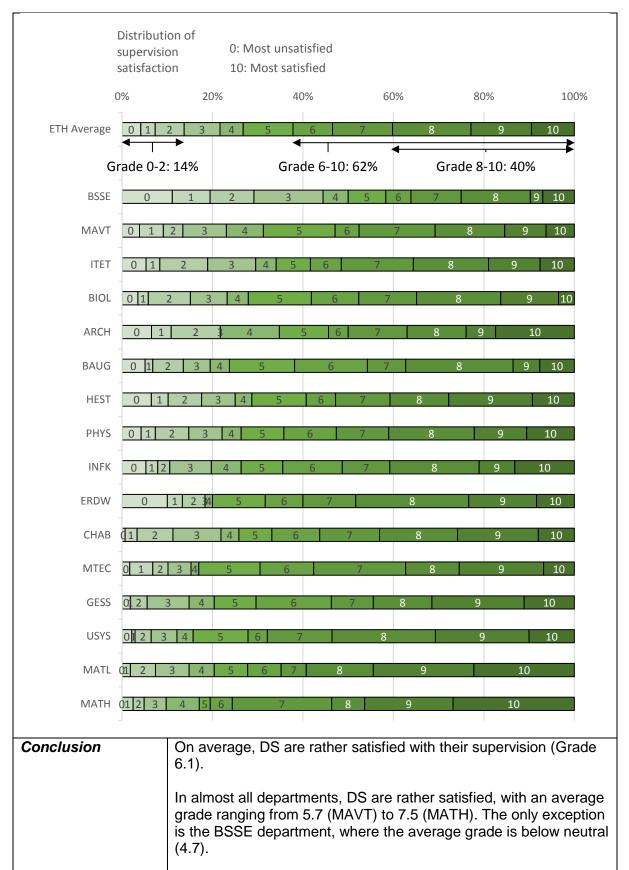


2.5 Overall satisfaction







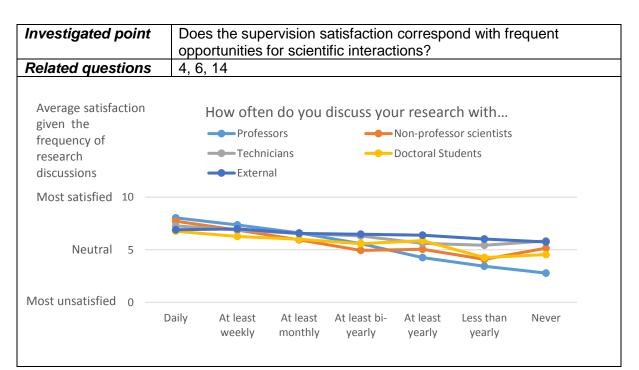




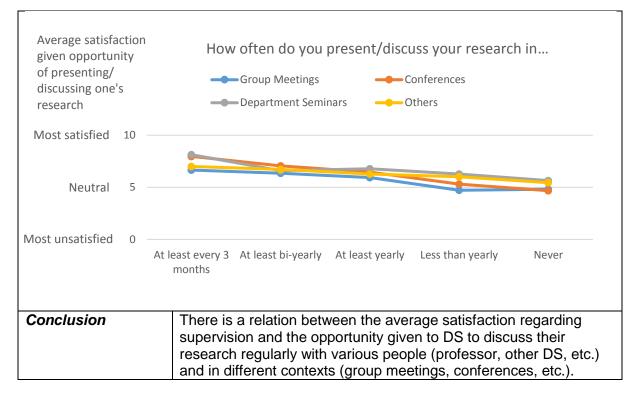
below).

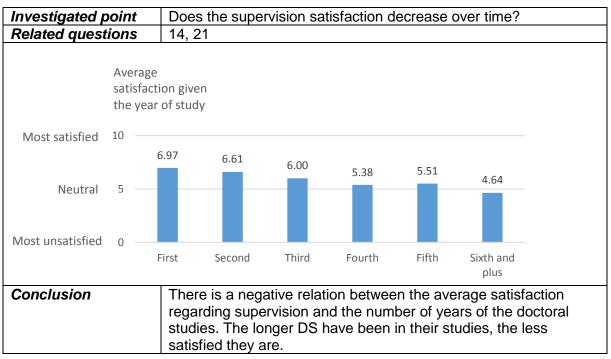
| A large majority of DS grades their supervision satisfaction positively (Grade 6 or above: 61%), and 40% very positively (Grade 8 or above). |
|--|
| 14% of DS are very dissatisfied with their supervision (Grade 2 or |

Are DS more satisfied with their supervision in smaller groups? Investigated point **Related questions** 14, 23 Average satisfaction given the group size Most satisfied 10 6.72 6.02 6.26 5.14 Neutral 5 Most unsatisfied 0 Small Medium Largest Large <= 5 DS <= 10 DS <= 15 DS > 15 DS Group size Conclusion There is no clear relation between the average satisfaction regarding supervision and the group size.



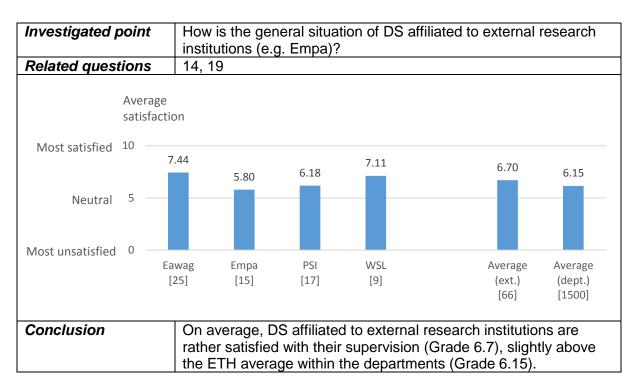




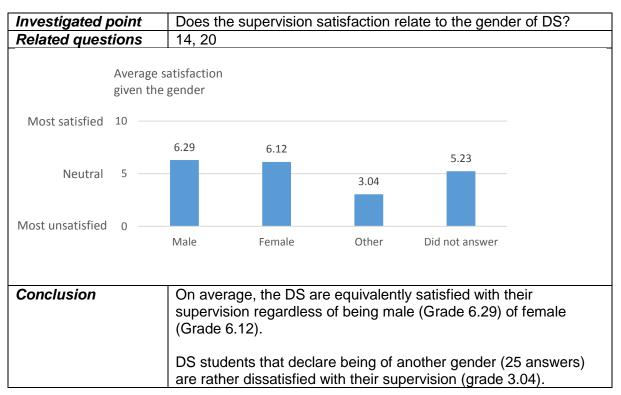


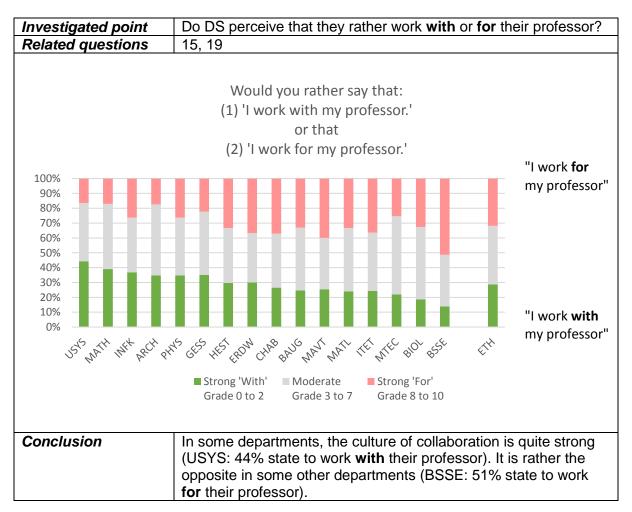


| Investigated p | oint | Does the superv interviews? | ision satisfaction relate to | having regular appraisal |
|-------------------|----------|--|------------------------------|--------------------------|
| Related questions | | 7, 14 | | |
| | given ti | e satisfaction ne appraisal ew practives | | |
| Most satisfied | 10 — | | | |
| | | 7.1 | 6.7 | 5.6 |
| Neutral | 5 — | | | |
| Most unsatisfied | 0 — | | | |
| | | Informal | Formal | None |
| | | There is a relation between the average satisfaction regarding supervision and having regular appraisal interviews. DS that have formal or informal appraisal interviews are more satisfied (Grade 7.1 and 6.7 resp.) than those that do not (grade 5.6). | | |











3 Qualitative analysis – problems with supervision and suggestions for supervision improvement

Overall, 553 individual respondents have left at least one comment, which corresponds to 31% of the collected answers.

In total, 715 comments were made by the respondents (general comments (Q24) and comments about how supervision can be improved (Q18)). 134 of those comments regarded general aspects of the survey or not related to supervision and are therefore not included in this analysis.

We summarize below the 581 comments related to supervision. The comments include problems in the supervision faced by DS, suggestions for improvement and positive experiences with supervision. A more detailed summary of the comments is given in Appendix III – Detailed analysis of the comments.

- 6% of the comments suggest that DS are happy with their supervision as it is. The rest of the comments describe supervision problems and suggestions for improvement.
- Most of the comments (about 36%) are focused on the absence or the lack of involvement of the professor in the research of the DS or the lack of her/his technical competences in the field. DS express their need for regular meetings with the professor (one-on-one and group meetings) and regular feedback on their work.
- Around 12% of the comments mention some sort of abuse of power from their professor (e.g., not granting holidays, bargaining with the employment conditions, etc.), which should not be the case. DS mention that the professors should respect them and treat them with fairness; and that professors should show trust and appreciation in the work of their students, and allow sufficient freedom in their research.
- Around 9% of the comments involve suggestions about better group hierarchy. DS commented that if regular supervision by the professor is hard to achieve due to the group size, the supervision should be delegated to a more senior researcher in the group (but nevertheless monitored by the professor).
- Approximately 8% of the comments suggest that the professors should have good management skills and be able to better distribute his/her time among supervising, lecturing, writing grants and administrative tasks.
- Another 8% of the comments propose that the mentorship and supervision by professors should be monitored externally on a regular basis; furthermore, professors should undergo mentorship trainings, including training on communication and other soft skills.
- 5% of the comments are related to fair and transparent salary regulations and regular contract renewals as a part of good supervision, which should be both better communicated and in a timely manner. DS commented that if additional duties (e.g., teaching, lab maintenance etc.) are expected to be part of the doctorate, it should be clearly communicated in advance.
- A good supervisor should promote the personal and professional development of their DS (e.g. attending workshop, conferences), and/or provide career advice (around 3% of the comments).



4 Summary

The high response rate of the survey (36% on average) and the large amount of open comments (31% of respondents) show that doctoral students (DS) are interested in the topic of doctoral supervision and how to improve it.

However, it is *important to keep in mind* that there may be a bias in the answers collected (most unsatisfied people may be keener to answer the survey). Unfortunately, this cannot be avoided.

The survey analysis showed that, although DS are generally satisfied (62% grade 6 or above) or very satisfied (40% grade 8 or above) with their supervision, the situation varies significantly across departments – from an average grade of 4.7 in the BSSE department (5 is neutral) to 7.5 in the MATH department. On average, 14% of DS are very unsatisfied (Grade 2 or below) with their supervision.

The analysis revealed some relations between satisfaction w.r.t. supervision.

- The average satisfaction decreases with the number of years spent in the doctoral studies.
- The average satisfaction increases with more frequent opportunities to discuss and present one's work.
- The average satisfaction is higher for DS having yearly appraisal interviews or other informal meetings where they can exchange feedback on their performance.

On the contrary

- The group size does not appear to have an impact on the average satisfaction.
- Male and female DS are equivalently satisfied w.r.t. their supervision.

Moreover, 24% of the survey respondents stated that they experience some kind of 'abuse of power' from their supervisor, ranging from lack of scientific freedom (7 cases) to pressure to working long hours or on weekends (167 cases, which corresponds to 11% of the respondents; therefore at least 3.7% of all ETH DS).

Furthermore, 7% of the respondents of the survey declare being scared to get help in case of conflict with their supervisor or colleagues. This percentage reaches 12% in the ERDW and 17% in the BSSE departments.

Finally, in the collected comments, several suggestions have been made regarding how to improve supervision. Most of them are related to the presence and interest of the professor in the work of the DS, accompanied with frequent meetings and regular feedback. Further comments suggest that better group hierarchy, good management skills of the professor and fair treatment of the DS are part of a good supervision, which could be monitored externally.



5 Acknowledgements

This survey and its analysis would not have been possible without the help and support of a number of people across ETH. We would like to thank the Politics Team of AVETH for their productive discussions during the course of survey preparation as well as for the analysis of the results. The Politics Team meetings throughout 2017 and till early 2018 were often the place of debates on this particular topic.

We would like to thank the Rector of ETH, Prof. Dr. Sarah Springman, for allowing us to send this survey to the complete list of ETH doctoral students and making it a great success with nearly 40% of reply rate. We would also like to thank the Vice Rector for Doctoral Studies, Prof. Dr. Antonio Togni, for his help and suggestions during the design phase of the survey.

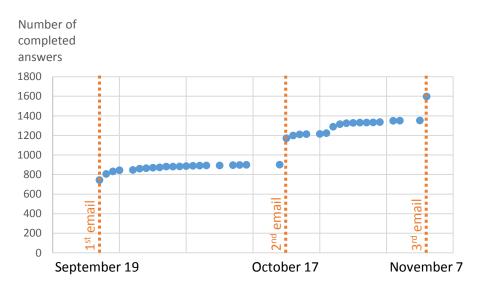


Appendix

Appendix I – Methodology of the survey

The survey was anonymous (no IP tracking) and conducted using the survey tool "SelectSurvey" provided by ETH. Only the data of completed answers was used.

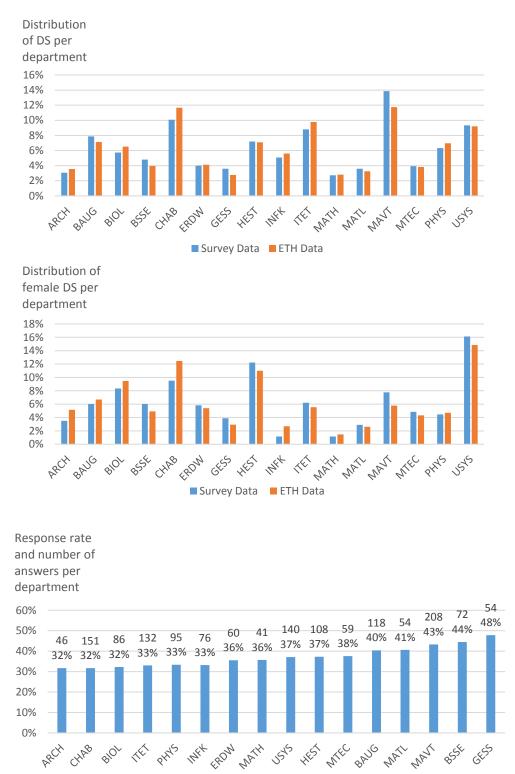
The survey was first sent by email on September 19, 2017 to all DS of ETH (4'094 people on this date). Two more emails were sent to all DS on October 17 and November 7 respectively, each resulting in a significant increase in completed answers to the survey. In addition, three reminders were sent within the AVETH newsletters. Finally, the survey was closed on December 22, 2017, with 1'594 received answers.





Appendix II – Significance of the survey data

Prior to the data analysis, the significance of the received answers was checked by comparing the obtained survey data with official ETH data for DS affiliated to one of the 16 ETH departments. In addition, the ratio of female DS was compared between the survey data and ETH data.





Appendix III – Detailed analysis of the comments

In the detailed analysis below, each comment is classified in one of the following groups (a few comments are classified in more than one group, since they contain several aspects). The number in the squared brackets contains the number of comments for each group.

Note – Throughout the comments, the DS refer to their supervisors with a variety of expressions (e.g., PI, supervisor, professor, etc.). Throughout this section, for consistency reasons, we use only the expression 'professor'.

• Presence, better communication, more involvement [207]

The professors should be more present, more involved and care more about what his/her students do. This includes more frequent meetings (one-to-one and group meetings), better feedback (positive or constructive negative), setting clear goals regarding one's project (better structured requirements for graduation), and overall better and more open communication between the professor and the student. Some of these comments can be further sub-classified into:

- Explicitly mentioned "regular one-to-one meetings" [34]
- Explicitly mentioned "personalgespraech", i.e. "*appraisal interview*" [10]
- Explicitly mentioned "regular group meetings" [10]
- Explicitly mentioned that more regular *feedback* on someone's work is needed for good supervision [24]
- Complains about the lack of competences of the professor (he/she is not expert in field) [11]
- More human behavior, more respect, follow the rules, no abuse of power [69]
 The professors should treat their DS better; he/she should be more human. DS should not be seen only as numbers/slaves and should be treated with respect. DS should not

be discriminated, nor treated differently.

 The professors should not abuse their power over the DS and should support work life balance. DS should not be afraid to ask for holidays or be forced to work extra hours or on weekends. Over hours/working on weekends should not be taken for granted and should be more acknowledged. [7]

• Better group structure [51]

There are too many DS in the group and not enough Post-Docs or Senior scientists who could supervise them.

- The group is too big, especially there are too many DS (the professor does not have time for them). [13]
- If this is the case, a better group hierarchy should be established: DS should be supervised by Post-Docs and/or Senior scientists. [33]
- It should be taken care, and monitored by the main supervisor, that senior scientists or Post-Docs are good mentors and supervisors themselves when they take care of DS. [4]

• Better manager [48]

The professor should have better management skills to lead the group. He/she should be able to organize his/her time better in order to have time for administrative work,



writing grants and supervising students. He/she should also have a better idea of how big of a group he/she can afford to manage.

• External influence is required [45]

Stronger external influence on the professor's leadership and supervision skills would be useful.

- Professors should get external (potentially from HR) training about how to be better supervisor and to acquire soft skills in order to better communicate with their students. [22]
- External and frequent committee evaluations on professor's leadership and mentorship skills would be useful. [14]
- Departments should take more responsibilities for their professors (monitoring) and DS (in case help is needed). [4]
- Evaluation tool for the professors in regards of supervision and mentoring is needed, similar as the one for teaching [3]
- The DS professor should not be the same person that will grade and approve the thesis. That gives too much leverage to the professors [1];
 Assign external co-supervisor from the beginning and work closely with him/her as well. [1]

• Happy with supervision [37]

Some DS are perfectly happy with their supervision and their work environment.

• Contract renewal, short contracts, and salary [30]

Contract renewal should be fair, communicated better, and in timely manner.

- Complains about contract renewal, multiple short contracts, and permits for Non-EU students were made. [15]
- Complaints were made about salary. [15]

• Appreciation, trust, freedom [24]

More appreciation and trust for one's work, freedom in one's work.

- The professor should trust their DS more and understand how long it takes for certain tasks to be completed; appreciation for the student's work should be given. [14]
- The professor should give more freedom to DS in their research. [10]

• Professional and personal development [8]

The professor should encourage the DS in their professional and personal development (i.e., attending conferences, workshops).

• Career talks [7]

Career talks with the DS are part of good supervision.

- Miscellaneous [55]
 - It is hopeless to improve something; the professor is simply unfit for the job or the system is flawed. [7]
 - Some say only "No" or "Yes" or "N/A". [8]
 - Having two supervisors (the professor and the post-doc or a co-supervisor) is a problem... [5]



AVETH, SOL B 7, Sonneggstrasse 33 ETH Zürich, CH-8092 Zürich Tel. +41 44 632 42 93, Fax. +41 44 632 10 20 info@aveth.ethz.ch www.aveth.ethz.ch

- o Disappointing experience with the ombudsman or HR. [4]
- It is not all about publishing... [3]



Loca

Appendix IV – Survey questions

Supervision of your doctoral studies

 Were the requirements for graduation (e.g. number of publications, duration of doctoral studies, etc.) clearly communicated to you when you started your doctoral studies?

Yes

According to the ETH Regulations for Doctoral Studies, a <u>Reseach Plan</u> must be submitted within the first year of
enrollment to the doctoral studies. This plan is supposed to outline the research project of your doctoral studies. It
represents a written agreement co-signed by the supervisor and the doctoral student.

Were/are you pushed to submit your research plan within the first year of your doctoral studies?

| \bigcirc res, by the department \bigcirc no \bigcirc rule in \bigcirc no \bigcirc rule in \bigcirc | Yes, by my professor | Yes, by the department | O No | 🔍 I don't kn |
|--|----------------------|------------------------|------|--------------|
|--|----------------------|------------------------|------|--------------|

Do you think that writing your Research Plan was/is useful for you?
 0: Most useless - 10: Most useful

| | - Torate | |
|---|----------|------|
| 5 | | |
| _ | | ^ |

4. With whom and how often do you discuss your research?

| | Daily | At least every week | At least every month | At least every six months | At least every year | than once per year | Never |
|--|-------|---------------------------|----------------------------|---------------------------------|---------------------------|-----------------------------|-------|
| Your Professor | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-professor scientists | | 0 | 0 | 0 | 0 | 0 | 0 |
| Technicians or engineers | | 0 | 0 | 0 | 0 | 0 | 0 |
| Other doctoral students | | 0 | 0 | 0 | 0 | 0 | 0 |
| External collaborators (e.g. industry partners) | 0 | | 0 | • | 0 | 0 | |

- 5. What is the position of the person you consider being your main supervisor, i.e. the one guiding you the most in your research?
 - Professor
 - Non-professor scientist (e.g., postdoc, senior scientist, etc.)
 - No one is actually helping me
 - Other, please specify

6. How often do you present/discuss your research in the following?

| | At least every three months | At least every six months | At least every year | Less than once per year | Never |
|---|--------------------------------------|---------------------------------|---------------------------|-------------------------------|-------|
| Group meetings | 0 | | • | 0 | 0 |
| Conferences | 0 | 0 | 0 | 0 | 0 |
| Department seminars | 0 | 0 | 0 | 0 | |
| Other opportunities (i.e. to external collaborators) | 0 | 0 | 0 | 0 | 0 |



Personal and Professional development

7. According to the Human Resource services of ETH:

The appraisal interview ("Personalgespräch") offers the chance for both the employee and the supervisor to assess the employee's current performance and work out opportunities for further personal development.

The official appraisal interview form gives a general idea of the objectives of the appraisal interview.

Do you have "appraisal interviews" ("Personalgespräch") with your supervisor?

- Yes I have a formal meeting, using the official form
- Yes I have an informal discussion
- No

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Do you think that these meetings are (or would be) useful for you?
 0: Most useless - 10: Most useful



- Is your professor available to discuss and advise his/her doctoral students with their career plans?
 Yes
 Yes, but only if I ask him/her
 No
 I don't know
- Do you think that these career discussions are/would be useful for you?
 0: Most useless 10: Most useful

| ^ |
|---|

- Are you encouraged by your professor to attend personal development and/or soft-skill courses, e.g. <u>didactica</u> programme, <u>Learning To Teach</u>, D-GESS doctoral lectures, job fairs, etc.?
 - Yes

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- No, but he/she agrees if I ask
- No, he/she is opposed to the idea
- I don't know

12. Are you encouraged by your professor to attend conferences and/or workshops?

- Yes
- No, but he/she agrees if I ask
- No, he/she is opposed to the idea
- I don't know.
- 13. If not, do you know why?
 - I have nothing to present.
 - Others may steal our ideas.
 - It is not worth the time.
 - It is too expensive.
 - Other, please specify



AVETH, SOL B 7, Sonneggstrasse 33 ETH Zürich, CH-8092 Zürich Tel. +41 44 632 42 93, Fax. +41 44 632 10 20 info@aveth.ethz.ch www.aveth.ethz.ch

Overall Satisfaction

14. In general, are you satified with the supervision of your doctoral studies? ost unsatisfied - 10: Most satisfied 0: M





- 15. Would you rather say that: (1) 'I work with my professor.' or that (2) 'I work for my professor.' 0: Most agreement with (1) - 10: Most agreement with (2) 5
- 16. Do you feel that your professor abuses his/her power over you? If yes, which kind of abuse do you experience?
 - 🗌 No
 - Salary pressure

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- Bargaining of contract renewal
- Asking you to work on weekends
- Not granting holidays
- Yes, but other (please specify)
- 17. In case of conflict with your supervisor/colleagues, do you know whom you can talk to?
 - Yes, I know
 - Yes, but I would be/am scared to seek help
 - No, but I know where to look it up if necessary
 - No, I don't
- 18. Do you have any suggestions about how your supervisor could improve his/her supervision?