MOOC questionnaire data overview

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**Basic data**

Total questionnaires : 125

The records per discipline are found in Table 1. Here multiple answers were possible, leading to a total of 137 records of a discipline.

Table 1: number of records per discipline in the questionnaire

|  |  |
| --- | --- |
| **Scientific Field** | **Records** |
| Arts Humanities | 17 |
| Life Sciences Biomedicine | 28 |
| Physical Sciences | 19 |
| Social Sciences | 33 |
| Technology | 40 |
| **Total** | **137** |

**Introduction**

In the analysis presented here, we have defined the different possible answers to the presented questions as “positive” or “negative” with regards to the principles of Open Science. For example, with the question *How common is it that researchers share their data openly in your field?*, the answers ‘very common’ and ‘common’ are regarded as positive. In contrast, the answers ‘uncommon’, ‘rare’ and ‘not at all’ are considered negative responses. We have indicated which responses we observe as positive or negative for each question separately.

**Data collection**

The answers from the interviewees that were provided by the MOOC participants were collected and cross-correlated with the scientific field that the Interviewee works in. By dividing the number of answers with the total number of interviewees in the research field, we have calculated the percentage of positive and negative responses to the question. The results are found in Table 2 through Table 8.

The results found in tables 2-8 are subject to a bias that is caused by what interviewees consider as a common or uncommon practice. In order to account for this effect, we have analysed how the interviewees consider their own open science practice with regards to their colleagues in the field. We have evaluated the interview questions found in tables 2-8 using this analysis.

The recorded answers to the question “How common is it that researchers share their data openly in your field?“ include ‘very common’, ‘common’, ‘uncommon’, ‘rare’ and ‘not at all’. We have interpreted the responses ‘very common’ and ‘common’ as positive and the responses ‘uncommon’, ‘rare’ and ‘not at all’ as negative, which is shown in Table 2.

**Table 2:** Record responses for the question “How common is it that researchers share their data openly in your field?“, categorised by scientific field.

|  |  |  |
| --- | --- | --- |
| **How common is it that researchers share their data openly in your field? (N=137)** | | |
| **Scientific Field** | % positive | % negative |
| Arts Humanities (N=17) | 47,5 | 52,5 |
| Life Sciences Biomedicine (N=28) | 51,52 | 45,45 |
| Physical Sciences (N=19) | 39,29 | 60,71 |
| Social Sciences (N=33) | 57,89 | 42,11 |
| Technology (N=40) | 23,53 | 76,47 |

The recorded answers to the question “How open do you consider your own practice in comparison to others in your field?” include ‘very common’, ‘common’, ‘uncommon’, ‘rare’ and ‘not at all’. We have interpreted the responses ‘very common’ and ‘common’ as positive and the responses ‘uncommon’, ‘rare’ and ‘not at all’ as negative, which is shown in Table 3.

**Table 3:** Responses to the question “How common is it to publish scientific articles Open Access in your Field?“, categorised by scientific field.

|  |  |  |  |
| --- | --- | --- | --- |
| **How common is it to publish scientific articles Open Access in your Field? (N=137)** | | | |
| **Scientific Field** | % positive | % negative | % no response |
| Arts Humanities (N=17) | 62,5 | 37,5 | 0 |
| Life Sciences Biomedicine (N=28) | 75,76 | 21,21 | 0 |
| Physical Sciences (N=19) | 46,43 | 50 | 3,57 |
| Social Sciences (N=33) | 73,68 | 26,32 | 0 |
| Technology (N=40) | 41,18 | 58,82 | 0 |

The recorded answers to the question “How open do you consider your own practice in comparison to others in your field?” shown in Table 4 included ‘much more’ ‘more’ ‘equal’ ‘less’ and ‘much less’. We have interpreted the responses ‘much more’ and ‘more’ as positive and the responses ‘less’, and ‘much less’ as negative. The response ‘equal’ was evaluated as positive or negative. Both results are is shown in Table 4.

**Table 4:** Responses to the question “How open do you consider your own practice in comparison to others in your field? “, categorised by scientific field. The question was evaluated twice, with response type ‘equal’ included in the category negative or positive, respectively.

|  |  |  |  |
| --- | --- | --- | --- |
| **How open do you consider your own practice in comparison to others in your field? (N=137)** | | | |
| **Scientific Field** | % positive  (excluding equal) | % negative (including equal) | % no response |
| Arts Humanities (N=17) | 35 | 65 | 0 |
| Life Sciences Biomedicine (N=28) | 24,24 | 69,70 | 6,06 |
| Physical Sciences (N=19) | 14,29 | 85,71 | 0 |
| Social Sciences (N=33) | 31,58 | 68,42 | 0 |
| Technology (N=40) | 29,41 | 70,59 | 0 |
| **How open do you consider your own practice in comparison to others in your field? (N=137)** | | | |
| **Scientific Field** | % positive  (including equal) | % negative  (excluding equal) | % no response |
| Arts Humanities (N=17) | **80** | 20 | 0 |
| Life Sciences Biomedicine (N=28) | **72,73** | 21,21 | 3,03 |
| Physical Sciences (N=19) | **96,43** | 3,57 | 0 |
| Social Sciences (N=33) | **89,47** | 10,53 | 0 |
| Technology (N=40) | **76,47** | 23,53 | 0 |

The recorded answers to the question “What is the attitude in your field towards open science (e.g., open data, open access) and its potential advantages?” include ‘very positive’, ‘positive’, ‘’, ‘rare’ and ‘not at all’. We have interpreted the responses ‘very common’ and ‘common’ as positive and the responses ‘uncommon’, ‘rare’ and ‘not at all’ as negative, which is shown in Table 5.

Table 5: Responses to the question “What is the attitude in your field towards open science (e.g., open data, open access) and its potential advantages?“, categorised by scientific field.

|  |  |  |  |
| --- | --- | --- | --- |
| **What is the attitude in your field towards open science (e.g., open data, open access) and its potential advantages? (N=137)** | | | |
| **Scientific Field** | % positive | % negative | % no response |
| Arts Humanities (N=17) | 72,5 | 27,5 | 0 |
| Life Sciences Biomedicine (N=28) | 81,82 | 15,15 | 3,03 |
| Physical Sciences (N=19) | 46,43 | 50,00 | 3,57 |
| Social Sciences (N=33) | 78,95 | 21,05 | 0 |
| Technology (N=40) | 76,47 | 23,53 | 0 |

The recorded answers to the question “Have you ever used open data provided by other researchers?” include ‘yes’ and ‘no’. We have interpreted the response ‘yes’ as positive and the response ‘no’ as negative, which is shown in Table 6.

Table 6: Responses to the question “Have you ever used open data provided by other researchers?”categorised by scientific field.

|  |  |  |  |
| --- | --- | --- | --- |
| **Have you ever used open data provided by other researchers? (N=137)** | | | |
| **Scientific Field** | % positive | % negative | % no response |
| Arts Humanities (N=17) | 55,00 | 45,00 | 0 |
| Life Sciences Biomedicine (N=28) | 51,52 | 45,45 | 3,03 |
| Physical Sciences (N=19) | 60,71 | 35,71 | 3,58 |
| Social Sciences (N=33) | 63,16 | 36,84 | 0 |
| Technology (N=40) | 64,71 | 35,29 | 0 |

The recorded answers to the question “Have you published scientific articles Open Access?” include ‘yes’ and ‘no’. We have interpreted the response ‘yes’ as positive and the response ‘no’ as negative, which is shown in Table 7.

Table 7: Responses to the question “Have you published scientific articles Open Access?”categorised by scientific field.

|  |  |  |  |
| --- | --- | --- | --- |
| **Have you published scientific articles Open Access? (N=137)** | | | |
| **Scientific Field** | % positive | % negative | % no response |
| Arts Humanities (N=17) | 57,50 | 42,50 | 0 |
| Life Sciences Biomedicine (N=28) | 66,67 | 30,30 | 3,03 |
| Physical Sciences (N=19) | 57,14 | 39,29 | 3,57 |
| Social Sciences (N=33) | 63,16 | 36,84 | 0 |
| Technology (N=40) | 41,18 | 58,82 | 0 |

The recorded answers to the question “Do you share (part of) your data openly yourself?” include ‘yes’ and ‘no’. We have interpreted the response ‘yes’ as positive and the response ‘no’ as negative, which is shown in Table 8.

Table 8: Responses to the question “Do you share (part of) your data openly yourself?”categorised by scientific field.

|  |  |  |  |
| --- | --- | --- | --- |
| **Do you share (part of) your data openly yourself? (N=137)** | | | |
| **Scientific Field** | % positive | % negative | % no response |
| Arts Humanities (N=17) | 57,50 | 42,50 | 0 |
| Life Sciences Biomedicine (N=28) | 51,52 | 45,45 | 3,03 |
| Physical Sciences (N=19) | 50,00 | 50,00 | 0 |
| Social Sciences (N=33) | 36,84 | 63,16 | 0 |
| Technology (N=40) | 47,06 | 52,94 | 0 |