October 2025

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DZHW Scientists Survey 2023

Data and methods report on the DZHW Scientists Survey 2023



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1 Study Overview

The DZHW Scientists Survey is a nationwide, representative trend study to explore the working and research conditions at German universities and equivalent higher education institutions with the right to award doctorates. It is intended as a long-term barometer for science and is to be conducted as a regular trend study every three years.

Both science studies and science policy are interested in a comprehensive and precise understanding of the changes in the science system. This requires systematic monitoring and research that can also measure changes over time. Since 2011, the *Hochschulbarometer* (higher education barometer) conducted by the *Stifterverband* has been surveying university management across Germany on the current situation in the German higher education landscape (Böhmer et al. 2011). The *Wissenschaftsbarometer* (science barometer) conducted by *Wissenschaft im Dialog* surveys around 1000 citizens every year on their perceptions, attitudes and trust in science. However, so far there has been a lack of targeted and regular monitoring of the researchers' views. The DZHW Scientists Survey starts at this point and complements these perspectives on the functionality of the science system with the experiences and assessments of the scientists themselves. Their practices, perceptions and attitudes are the focus of the DZHW Scientists Survey.

The DZHW Scientists Survey is aimed at scientists at German universities and equivalent higher education institutions. For this purpose, publicly available address data of professors and research assistants are gathered from the websites of higher education institutions with the right to award doctorates. The Scientists Surveys conducted to date took place in 2010, 2016, 2019/20 and 2023. The current cohort was surveyed in the winter semester 2022/23 from January to March 2023. Although COVID-19 was already known during the field phase of the previous 2019/20 cohort – the first infections and rising incidences in Germany had already occurred by the time the fieldwork was completed – the extent of the pandemic and its impact on the scientists surveyed and their regular research routine was not yet foreseeable for most of them. In contrast, respondents in the current cohort look back retrospectively on working and research times during the pandemic and their current post-pandemic situation. This fact was taken into account both in the design of the survey and in the interpretation of the results. A net analysis sample of 11,371 respondents was realized. This sample is large enough to examine various subgroups (e.g. occupational status group, gender, parenthood, migration experience, educational background) in detail and to carry out comparative subject analyses at a very differentiated level.

The DZHW Scientists Survey is designed as a wide-ranging multi-topic survey. Each survey consists of a core questionnaire with central questions, many of which have already been asked in one or more previous Scientists Surveys, as well as advanced modules with detailed questions on focus topics for which the instruments are developed in cooperation with research groups within and outside the DZHW. The seven focus topics in the advanced modules of the DZHW Scientists Survey 2023 were: Research Information/Digital Infrastructures/Informational Self-Determination, Digital Scholarly Communication, Science Mobility, Research Funding, Trust within Science, Tenure Track and Researcher Independence as well as Peer Review and Lotteries in Research Funding.

The DZHW Scientists Survey is a fundamental tool for assessing and reflecting on the situation at German higher education institutions with the right to award doctorates and provides a comprehensive pattern of opinions on the situation and development of the German science system. Changes over time in attitudes and opinions on science policy issues are examined as part of trend analyses. The data also forms the basis for scholarly publications and serves as an empirical basis for public discussions and political decision-making processes. The key results of the DZHW Scientists Survey 2023 were published as *Barometer für die Wissenschaft – Ergebnisse der Wissenschaftsbefragung 2023* (barometer for science – results of the Scientists Survey 2023) in February 2024 and made publicly available on the project website (Fabian et al. 2024). In addition, the prepared, anonymized data of the DZHW Scientists Survey 2023 will be made available long-term and documented as a scientific use file via the DZHW Research Data Centre (FDZ-DZHW) and thus made accessible to all interested parties in research and science policy.

The following chapters provide information on the methodological details of the survey (population and sample design, field phase and response statistics, sample description, weighting), the content of the survey instrument and the anonymization procedure for the published scientific use file. It should be noted that the data for the advanced module F ("Tenure Track and Researcher Independence") are not published.

2 Methods

2.1 Population and sample design

The DZHW Scientists Survey 2023 is a representative online survey of full-time academic and artistic staff at German universities and equivalent institutions of higher education with the right to award doctorates. As no list with contact information exists for this *population*, a sampling frame was defined that comes as close as possible to this population (cf. Gabler & Häder 2015). The *sampling frame* was defined as the scientists with address information who can be found on the websites of the higher education institutions. Assuming that almost all scientists are present on the websites of their institutions and that this information is also kept very up-to-date, such a sampling frame comes as close as possible to the population. Beyond this, no systematic deviations are known.

In the run-up to the survey, address information of academic employees was researched at 158 higher education institutions between May and December 2022 (sampling population). The addresses include professors, postdocs (scientists who have completed a doctorate) and predocs (scientists without a doctorate, regardless of whether they are working on a doctorate or not) if they work full-time at one of these higher education institutions. The e-mail addresses and other information required for the cover letter were semi-automatically processed into address data and quality-checked. Afterwards, a gross address sample of 105,655 addresses was drawn at random from this pool. Professors were fully taken into account and postdocs were selected disproportionately, i.e. with a greater probability than predocs. By design, such a disproportionately stratified sample means that the predocs are initially underrepresented. This must be taken into account in the analyses and compensated by weighting whenever an overall perspective of the scientific staff is adopted. The corresponding weights were generated and integrated into the data set (cf. chapter 2.4).

2.2 Field phase and response

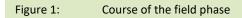
On January 13, 2023, the initial mailing to the 105,655 addresses of the gross sample began. This included invitation emails with individualized links to the questionnaire. The field phase lasted until March 31, 2023. Following the invitations, the first reminders were sent to all status groups (professors, postdocs and predocs) between February 2 and 6, and a second reminder was sent to professors and postdocs between February 20 and 23. A few days after the reminders, a separate reminder was sent for persons who started but did not complete the questionnaire. The purpose of these reminders for non-completers was to send persons the direct link to resume the survey so that they did not have to access the survey again via the project website and the data protection policy.

 $^{^{1}}$ Lecturers, (part-time) private lecturers and honorary professors are therefore not included in the sample.

Table 1: Course of the field phase

	Date	Effectiveness
Invitations		5,697 (50.1%)
Initial contact	January 13-18	
Initial contact (delayed)	January 26	
1st Reminder		3,730 (32.8 %)
Reminder	February 2-6	
Reminder (non-completers)	February 13	
2nd Reminder		1,944 (17.1 %)
Reminder ^a	February 20-23	
Reminder (non-completers)	February 27	

^a only for professors and postdocs



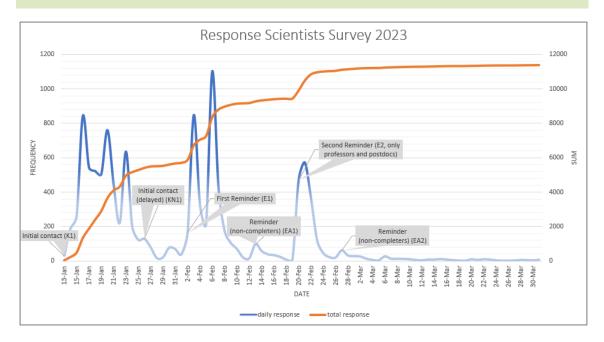


Table 1 and Figure 1 clearly show the positive effect of the reminders. The first reminder generated around 33 percent of the total response and the second reminder, with 1,944 finished and fully analyzable questionnaires, generated 17 percent of the total of 11,371 cases in the net sample.

Of the total of 105,655 cases in the gross address data, no contact could be realized via 15,152 of the addresses (bounced mails) due to outdated or incorrect e-mail addresses that could not be corrected. In addition, some of the initial participants did not belong to the targeted population and were therefore screened out in the questionnaire. Extrapolated to the gross address sample, this corresponds to an estimated size of 9,452 cases that did not belong to the population. The adjusted address sample thus comprises 81,051 cases (cf. Table 2).

Table 2:	Response	statistics
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Address sample (gross) [s1]	105,655
Bounced mails	-15,152
Contacted sample [s2]	90,503
Not belonging to population (extrapolation²)	-9,452
Adjusted address sample [s3]	81,051
Initial response ³ [r1], thereof:	14,057
Survey dropouts⁴	-2,463
Incomplete or inconsistent ⁵	-223
Net sample (finished, complete) [r2]	11,371
Response rate (RR1) [r2/s1]	10.8 %
Response rate (RR2) [r2/s2]	12.6 %
Response rate (RR3) [r2/s3]	14.0 %
Completion rate (1 - dropout rate)	80.9 %

2,463 respondents opened the survey but dropped out during the processing. The data cleansing removed a further 223 cases that proved to be excessively incomplete and inconsistent or so-called "speeders". Finally, a net analysis sample of 11,371 scientists could be realized. The completion rate of almost 81 percent is extremely satisfactory for a survey of this length, without pre-acquisition and without material incentives (cf. Galesic & Bosnjak 2009). We attribute this result to the appropriate questions for the situation of the scientists surveyed and a consistent routing of the online questionnaire (cf. chapter 3). A similarly high completion rate was already achieved in the previous DZHW Scientists Survey.

At 14.0% (RR3), the response rate was around 2.5 percentage points lower than in the previous DZHW Scientists Survey in 2019 (cf. Ambrasat et al. 2022). External reasons for this may lie in an increased unwillingness to participate in surveys, in the context of massive hacker attacks on academic institutions and a persistently high survey load for scientists who receive a large number of invitations to (scientific and non-scientific) surveys. One internal reason for the comparatively lower response rate is the slightly lower data quality in the address data set. There was a greatly increased workload for the DZHW in acquiring addresses from more than twice as many higher education institutions (compared to the DZHW Scientists Survey 2019)⁶, which resulted in the partial use of already available, newly verified address data from 2019 instead of conducting new research. Compared to the DZHW Scientists Survey 2016, however, the response rate was significantly increased (Neufeld & Johann 2018).

² The cases screened out in the questionnaire serve as the basis for extrapolation to the gross address sample, cf. AAPOR 2023.

³ Respondents who have given their consent under data protection law and were at least on the first page of the questionnaire, minus those who – according to their responses – did not belong to the population.

⁴ All respondents who did not reach the last question of the core questionnaire are counted as survey dropouts.

⁵ All cases with more than 33 percent item non-response in the entire core questionnaire were deleted as incomplete. Cases are considered inconsistent if they exhibit anomalies such as "speeding", inconsistent biographical or other information on time periods and an inconsistent overall picture in the individual case review.

⁶ The address information was researched at as a total of 132 higher education institutions for the DZHW Scientists Survey 2019 (Ambrasat et al. 2022), but the DZHW shared the research equally with the University of Zurich.

The net analysis sample consists of 3,377 professors as well as 4,901 scientists with a doctorate and 3,093 scientists without a doctorate (cf. Table 3).

Table 3: Response by status g

	Status group					
Response status	Professor	Postdoc	Predoc	Total		
Contacted and belonging to the population	25,635	24,781	30,635	81,051		
Finished	3,377	4,901	3,093	11,371		
Rate (RR3)	13.2 %	19.8 %	10.1 %	14.0 %		

2.3 Sample description

The respondents are distributed relatively evenly across the scientific disciplines. 19.3 percent come from the humanities, 24.7 percent from the social and behavioral sciences, 16 percent from the life sciences, 20.2 percent from the natural sciences and 17.4 percent from the engineering sciences (cf. Table 4). The classification of the 49 fields of study that could be selected in the questionnaire was based on the DFG subject classification for the 2020-2024 term of office. Table 4 shows the DFG scientific disciplines with an additional subdivision into the humanities and social and behavioral sciences.

27.6 percent of participants in the sample are professors, 2.1 percent are junior professors and around 70 percent are research assistants (including research associates and assistant professors). Of the research associates (i. e. research assistants excluding assistant professors), 57.4 percent hold a doctorate and 42.6 percent do not hold a doctorate.

57.3 percent of respondents are male, 41.3 percent are female and just under 0.8 percent classify themselves as diverse.

Table 4: Sample statistics

	Cases	Percent	Cumulative percent
Scientific discipline according to DFG			
Humanities	2,193	19.29	19.29
Social and behavioral sciences	2,803	24.65	43.94
Life sciences	1,819	16.00	59.93
Natural sciences	2,299	20.22	80.15
Engineering sciences	1,983	17.44	97.59
Not assigned	274	2.41	100.00
Total	11,371	100.00	
Position			
Professor	3,141	27.62	27.62
Junior professor	236	2.08	29.70
Assistant professor	772	6.79	36.49
Research associate	7,222	63.51	100.00
thereof with a doctorate	4,143	57.37	
thereof without a doctorate	3,079	42.63	
Total	11,371	100.00	
Gender			
Male	6,511	57.26	57.26
Female	4,696	41.30	98.56
Diverse	87	0.77	99.32
Not assigned	77	0.68	100.00
Total	11,371	100.00	

The sample realized can also be compared with the higher education staff statistics published by the Federal Statistical Office of Germany. As the data for 2022/2023 is not yet available, we use the staff statistics of 2021 (cf. Statistisches Bundesamt [Federal Statistical Office of Germany] 2022) for the comparison (Table 5). The comparison shows that the various research areas and subject groups are very well represented across the board. Compared to the statistics of the Federal Statistical Office, the humanities and social/behavioral sciences as well as the natural sciences are slightly overrepresented in the sample, while engineers are slightly underrepresented.

C

Table 5: Subject distribution compared with the population

	Staff st	Staff statistics of the Federal Statistical Office 2021			2021	DZHW Scientists Survey 2023						
	Profes	ssors	Resea assista		Tot	al	Profes	ssors ^a	Rese Assist		Tot	al
	N	%	N	%	N	%	N	%	N	%	N	%
Humanities	6,985	28.7	19,750	14.6	26,735	16.8	799	24.3	1,394	17.9	2,193	19.8
Social and behavioral sciences	6,055	24.9	25,585	18.9	31,640	19.8	888	27.0	1,915	24.5	2,803	25.3
Medicine (without clinics)	1,105	4.5	12,995	9.6	14,100	8.8	245	7.4	532	6.8	777	7.0
Agriculture, Forestry and Veterinary medicine	605	2.5	4,530	3.4	5,135	3.2	53	1.6	152	1.9	205	1.8
Natural sciences	5,720	23.5	37,775	27.9	43,495	27.3	803	24.4	2,333	29.9	3,136	28.3
Engineering sciences	3,845	15.8	34,535	25.5	38,380	24.0	505	15.3	1,478	18.9	1,983	17.9
Total	24,315	100	135,170	100	159,485	100	3,293	100	7,804	100	11,097	100
Not assigned							84		190		274	

^a incl. professors and junior professors; ^b incl. research associates and assistant professors

2.4 Weighting

Weighting is used to prevent inaccuracies in estimators that can be caused by known biases in the sample. There are two sources of such biases in the sample: selectivity due to the survey design and selectivity through deliberate participation or non-response on the part of the respondents (cf. Kroh et al. 2015, Schupp & Wolf 2015). We address both forms with a corresponding weighting.

Design weighting

The DZHW Scientists Survey 2023 was conducted as a disproportionately stratified random sample with higher sampling probabilities for professors and postdocs in order to ensure a sufficient number of cases in these groups for detailed analyses. Because the sampling probabilities of professors and postdocs were increased (oversampling), predocs are underrepresented. This design-related underrepresentation of predocs can be compensated for with a design weight. The design weight w_D results directly from the disproportional stratification approach as the inverse of the sampling probability (cf. Table 6).

Non-Response-Weighting

To reduce possible biases in the sample resulting from the selective response behavior (non-response) of the respondents, we draw on the information from the gross address sample. Here we use the status groups that are known from the gross sample. The non-response weighting w_A is an adjustment to the corresponding distribution in the *gross sample* and is calculated as the inverse probability of participation of the respective status groups.

Combined design and non-response weight

In a third step, we combine the design weighting and the non-response weighting in one weight. This combined probability weight w_K thus adjusts the net sample directly to the sampling population and takes into account both the stratified design and the group-specific non-response. This effectively

corresponds to a combination of the design weight with the non-response weight, making the individual use of these two weights obsolete (cf. Table 6). In the scientific use file we offer both the combined probability weight w_K and the normalized combined probability weight w_N .

Table 6: Design and non-response weights

	Professors	Postdocs	Predocs	Total
Sampling population	25,635	41,691	94,554	161,880
Disproportionately stratified sample (adjusted)	25,635	24,781	30,635	81,051
Sampling probability	1	0.59	0.32	0.5
Design weight: w _D	1	2.014	4.032	_
Net sample	3,377	4,901	3,093	11,371
Probability of participation	0.132	0.198	0.101	0.140
Non-response weight: w _A	7.59	5.06	9.90	
Combined probability weight: w _K	7.59	8.51	31.11	14.24
Combined probability weight, normalized: $w_{\text{\scriptsize N}}$	0.533	0.598	2.186	Mean=1

The weighting should be used when estimating average values for scientists across status groups. The weight is not required for analyses differentiating between status groups; nor in multivariate analyses, if the status groups are controlled for. As the information of the status groups differs significantly for the vast majority of the characteristics measured (scientific practices as well as attitudes), it is always advisable to take these group differences into account and report them. If the weights are used, the data are considered representative of the group of scientists defined as the sampling frame.

Margin adjustment (calibration)

Depending on the research question, an adjustment (post-stratification) can also be made to known margin distributions of the population. Data from the Federal Statistical Office can be used here. These report the annual figures for full-time academic and artistic staff (cf. Table 5).

The figures for 2023 are expected to be published at the end of 2024 and were not yet available at the editorial deadline for the data and methods report. If users of the scientific use file wish to make this margin adjustment, we recommend using the information on the highest higher education degree ("höchster Hochschulabschluss") (cf. Statistisches Bundesamt [Federal Statistical Office of Germany] 2022) in conjunction with the personnel group ("Personalgruppe"). Whether a margin adjustment makes sense depends on the specific research question and must be examined on a case-by-case basis (see Tirari & Hdioud 2018).

3 Survey instrument

The survey instrument of the DZHW Scientists Survey 2023 was a standardized online questionnaire in German and English.⁷ In the following, we first explain the basic structure of the questionnaire, in which it was possible to take many topics into account through modularization (chapter 3.1). This is followed by a more detailed description of the specific topics (chapter 3.2).

3.1 Modularization

The most important influencing factor for a high response rate and good data quality is an appealing, consistent and not too extensive questionnaire. In order not to make the questionnaire too long and so that the burden on the individual respondents was not too great, the questionnaire was systematically modularized and the modules were randomized. Thus, all respondents were presented with a "core questionnaire", but additionally only questions on one of seven focus topics in so-called "advanced modules". For this purpose, the respondents were randomly assigned to seven different groups A to G within the survey, each of which was assigned to an advanced module (cf. Figure 2⁸ and variable msplit⁹). In this way, the very complex survey program was to be reduced for the individual respondents.

A processing time of 25 minutes was announced. Of this time, approximately 20 minutes were set aside for completing the core questionnaire and 5 minutes for completing the advanced modules. Since the status groups (professors, postdocs, predocs) had very different expected processing times due to partially differentiated filtering, this announcement was geared towards the group of professors with the highest expected processing times.

The actual median¹⁰ processing time was 23.2 minutes (cf. Table 7). Respondents who were assigned to advanced module group A had the longest median processing time among the advanced module groups at 24.4 minutes. At 22.0 minutes, respondents who were assigned to advanced module group C had the shortest median processing time.

Differentiated by status group, as expected, the median processing time for professors (24.8 minutes) is significantly longer than for postdocs (23.9 minutes) and predocs (20.3 minutes).

⁷ Of the 11,371 respondents (see chapter 2.2), 91 percent completed the German questionnaire and 9 percent completed the English questionnaire. The language was selected at the beginning of the questionnaire and could not be changed during the course of the survey.

⁸ It should be noted that the advanced module questions were generally asked in a separate block of questions following the core questionnaire, as shown in Figure 2, but that for the advanced modules D and G individual questions were integrated into the core questionnaire in order to keep the questionnaire more thematically consistent for the respondents. The specific questions can be identified from the filter routing in the questionnaire.

⁹ The variable msplit contains the assignment of the respondents to the advanced modules A-G. It should be noted that there are some cases that also have valid responses in variables of advanced modules to which they were not assigned according to the msplit variable. The background to this is that the randomized assignment to an advanced module group was carried out again when a survey that had been interrupted in the meantime was resumed. For example, it is possible that some respondents initially answered the first questions of advanced module C and then answered all questions of advanced module A after an interruption and resumption of the survey. In these cases, no subsequent adjustment was made; instead, all information was retained. For these cases, the variable msplit indicates the advanced module in which they spent the most time.

¹⁰ As some respondents had processing times of over an hour, the arithmetic mean deviates significantly from the median. Such sporadically very long processing times are presumably due to interruptions where the survey was not technically terminated or interrupted. The median is more meaningful here as a location parameter than the arithmetic mean because, unlike the arithmetic mean, it is robust against outliers.

Figure 2: Modularization of the DZHW Scientists Survey 2023

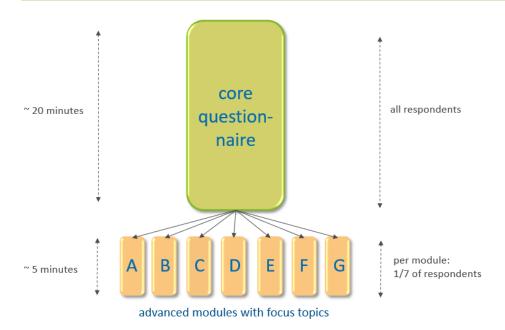


Table 7: Processing times by advanced module group and status group

	Median	mean	sd	N
Advanced module group				
Advanced module group A	24.4	26.5	14.8	1,609
Advanced module group B	24.0	26.2	11.9	1,671
Advanced module group C	22.0	24.1	11.9	1,672
Advanced module group D	22.2	24.1	12.5	1,562
Advanced module group E	24.2	26.5	13.5	1,702
Advanced module group F	22.7	24.7	12.7	1,573
Advanced module group G	23.3	25.8	13.3	1,582
Status group				
Professor	24.8	26.8	12.8	3,377
Postdoc	23.9	26.4	14.0	4,901
Predoc	20.3	22.5	12.0	3,093
Total	23.2	25.4	13.3	11,371

3.2 Topics

The core questionnaire of the DZHW Scientists Survey 2023 contains the following topic blocks:

- Key data on scientific biography
- Research and working conditions
 - Working conditions
 - Assessments of the field
 - Research practice
 - Supervision of young scientists
 - Continuing education courses in higher education didactics
- Research funding
 - Research funding and review
 - Organizational management
- Publication behavior and knowledge transfer
 - Publication behavior
 - Knowledge transfer
- Science policy topics and attitudes
 - Considerations on leaving academia
 - Science policy
 - Research during the corona pandemic
- Demography

The topics "Continuing education courses in higher education didactics", "Considerations on leaving academia" and "Research during the corona pandemic" were included in the DZHW Scientists Survey 2023 for the first time. Within the other topics, a large proportion of the questions were taken from the previous Scientists Surveys of 2009, 2016 and 2019 to be able to analyze changes over time.

The advanced modules contain the following focus topics:

- Advanced module A: Research information, digital infrastructures, informational self-determination
- Advanced module B: Digital scholarly communication
- Advanced module C: Science mobility
- Advanced module D: Research funding
- Advanced module E: Trust within science
- Advanced module F: Tenure track and researcher independence
- Advanced module G: Peer review and lotteries in research funding

The number of focus topics was increased from four to seven compared to the DZHW Scientists Survey 2019.

It should be noted that some questions were used secondarily from other instruments – some unmodified, some modified. The sources used for the questions concerned are listed in appendix 6.1.

Figure 3: Topics of the DZHW Scientists Survey 2023

Topics in the core questionnaire

Key data on scientific biography

Research and working conditions

- Working conditions
- Assessments of the field
- Research practice
- Supervision of young scientists
- Continuing education courses in higher education didactics

Research funding

- Research funding and review
- Organizational management

Publication behavior and knowledge transfer

- Publication behavior
- Knowledge transfer

Science policy topics and attitudes

- Considerations on leaving academia
- Science policy
- Research during the corona pandemic

Demography

Focus topics in the advanced modules

Research information, digital infrastructures, informational self-determination

Digital scholarly communication

Science mobility

Research funding

Trust within science

Tenure track and researcher independence

Peer review and lotteries in research funding

4 Anonymization

The EU General Data Protection Regulation (GDPR) and the Federal Data Protection Act (BDSG) in its revised version of 30 June 2017 apply to personal data¹¹ collected by the DZHW in voluntary surveys.¹² Accordingly, personal data for secondary scientific use (without a declaration of consent for secondary use of the personal data) must be processed "in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information, provided that such additional information is kept separately and is subject to technical and organisational measures to ensure that the personal data are not attributed to an identified or identifiable natural person" (Art. 4 para. 5 GDPR; see also Art. 89 GDPR and Recital 26 GDPR).

At the FDZ-DZHW, the data protection of the respondents is ensured by a combination of legal-organisational, technical and statistical measures. 13 The combinations result in four potential access ways, which are summarized in Table $8.^{14}$

Table 8:	Access ways at the FDZ-DZHW
----------	-----------------------------

	Campus Use File (CUF): Download	Scientific Use File (SUF): Download	Scientific Use File (SUF): Remote-Desktop	Scientific Use File (SUF): On-Site
legal- organisational measures	very low	low	moderate	high
technical measures	very low	low	moderate	high
statistical measures	very high	high	moderate	low

The more data access is legally-organisationally and technically controlled and restricted, the lower the risk of de-anonymization of the data. As a result, the data must be anonymized less by means of statistical measures, i.e. less information has to be removed from it — which means the greater its analysis potential remains.

For the data of the DZHW Scientists Survey 2023, only the access way "Scientific Use File (SUF): Remote-Desktop" is regularly available and the data is accordingly only prepared for this access way. However, persons who are employed by the DFG (German Research Foundation) at the time the data use agreement is concluded or who enter into an employment relationship with the DFG during the term of data use may only use the data via the "Scientific Use File (SUF): On-Site" access way. This is

¹¹ ""Personal data' means any information relating to an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person" (Art. 4 para. 1 GDPR).

¹² The GDPR generally applies within the EU and therefore also to the DZHW. The BDSG in its new version of 30 June 2017 (Act to Adapt Data Protection Law to the Regulation (EU) 2016/679 and to Implement Directive (EU) 2016/680, (Data Protection Adaptation and Implementation Act-EU (DSAnpUG-EU)) also applies in part, as the DZHW GmbH is legally considered a public body of the federal government (sect. 2 para. 3 BDSG). The federal government holds the absolute majority of shares in DZHW GmbH and the institute fulfils public administration tasks for the federal government in the broadest sense.

¹³ The FDZ's data protection concept is based on the portfolio approach of Lane, Heus and Mulcahy (2008, 6ff.), which is already used by the Leibniz Institute for Educational Trajectories (LlfBi) (cf. Koberg, 2016, 699ff.) and the RDC of the German Federal Employment Agency at the Institute for Employment Research (cf. Hochfellner, Müller, Schmucker & Roß, 2012, 9f.).

 $^{^{\}rm 14}$ For more detailed information, see https://www.fdz.dzhw.eu/en/data-usage

due to the fact that DFG employees have access to databases which, in conjunction with the individual data of the DZHW Scientists Survey 2023, represent an increased potential for de-anonymization. Provision via remote desktop is to be refused in this case in order to protect the anonymity of the survey participants. The FDZ-DZHW must be informed immediately of any new employment relationships of data users at the DFG that arise during the term of the data use agreement. The use of the access way "Scientific Use File (SUF): Remote-Desktop" is no longer permitted from the first day of employment at the DFG.

The specific statistical anonymization measures carried out are explained in more detail below.

As part of the statistical anonymization measures, all information was first checked whether it could be used to directly identify individuals. So-called direct identifiers, such as names, addresses and email addresses, were not collected. The original identification number was removed and replaced by a new randomly assigned identification number.

In addition, Ebel and Meyermann's recommendation to delete open responses was followed even if the questions themselves are unproblematic. This is because there is a risk that study participants may have disclosed critical information in actually harmless questions with open response option that could lead to identification (cf. Ebel & Meyermann, 2015, p. 5).

After that, quasi-identifiers were determined, i.e. information that, in combination or by adding external information, is suitable for indirectly identifying a person. To prevent unambiguous assignment of the data, these key characteristics are only available in an aggregated form or anonymized completely.

Finally, the data was checked for sensitive information, e.g. on health, sexual orientation and political attitudes, for which no additional consent for secondary use was obtained from the respondents. Although this is not necessarily suitable for the re-identification of individuals or institutions, the information can be useful in the event of de-anonymization (cf. Koberg, 2016, p. 694) and is therefore particularly worthy of protection (Art. 9 GDPR, Recital 51 GDPR). The sensitive information is anonymized completely.

The tables in appendix 6.2 provide an overview of the variables from the data provided which are anonymized and which were newly generated as "substitute variables".

It should be noted that the variables for the advanced module F ("Tenure Track and Researcher Independence") are not published and are therefore not listed in the table.

5 Literature

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6 Appendix

6.1 Documentation of the origin of secondarily used questions

Table 9: Core questionnaire: Documentation of the origin of secondarily used questions

Question	Original (O)/	Citation
number	Modified (M)	
fb11	M	Enders, J. &Teichler, U. (1995). Berufsbild der Lehrenden und Forschenden an Hochschu-
		len. Ergebnisse einer Befragung des Wissenschaftlichen Personals an westdeutschen
	M	Hochschulen. BMBF 1995, p. 85ff. Maier-Leibnitz, Heinz (1985). Schlussbericht der Umfrage zur Lage der Forschung an den
	IVI	Universitäten 1976/77-1984. Arbeitsbericht. Table A69. 15
pv1	М	German Centre for Higher Education Research and Science Studies (2024). National Academics Panel Study (Nacaps) 2018 – Survey 1. Data collection: 2019. Hanover: FDZ-DZHW. https://doi.org/10.21249/DZHW:nac2018:2.0.0. Questionnaire "Nacaps 2018. Variablenfragebogen zur National Academics Panel Study 2018 (1. Befragungswelle - Promovierende) (Deutsch)". Question B19, page 60.
pv2	М	German Centre for Higher Education Research and Science Studies (2024). National Academics Panel Study (Nacaps) 2018 – Survey 1. Data collection: 2019. Hanover: FDZ-DZHW. https://doi.org/10.21249/DZHW:nac2018:2.0.0. Questionnaire "Nacaps 2018. Variablenfragebogen zur National Academics Panel Study 2018 (1. Befragungswelle - Promovierende) (Deutsch)". Question B20, page 61.
cov1	M	FDZ-LIfBi (2020). Startkohorten 2-6. NEPS Corona und Bildung. Zusatzerhebung Mai 2020. Programmiervorlage CAWI, p. 15. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/NEPS-C/NEPS-C_Q.zip (accessed on 03/11/2024).
		German Centre for Higher Education Research and Science Studies (2024). National Academics Panel Study (Nacaps) 2018 – Survey 4. Data collection: 2022. Hanover: FDZ-DZHW. https://doi.org/10.21249/DZHW:nac2018:2.0.0. Questionnaire "Nacaps 2018. Variablenfragebogen zur National Academics Panel Study 2018 (4. Befragungswelle - Promovierende) (Deutsch)". Question D02, page 160.
cov2	М	Delgado-Osorio, X., Gierke, M., Jaen, J., Kansiime, J., Lonken, D., Pérez-Bosch Quesada, E., Ramachandran, K., Rizzi, T. & Saxena, P. (2023). Being a Doctoral Researcher in the Leibniz Association: 2021 Leibniz PhD Network Survey Report, Question K2, p. 208. https://nbnresolving.org/urn:nbn:de:0168-ssoar-89848-5 (accessed on 08/21/2024).
		German Centre for Higher Education Research and Science Studies (2024). National Academics Panel Study (Nacaps) 2018 – Survey 4. Data collection: 2022. Hanover: FDZ-DZHW. https://doi.org/10.21249/DZHW:nac2018:2.0.0. Questionnaire "Nacaps 2018. Variablenfragebogen zur National Academics Panel Study 2018 (4. Befragungswelle - Promovierende) (Deutsch)". Question D03, page 161.
cov3	М	Rusconi, A., Netz, N. & Solga, H. (2020). Publizieren im Lockdown. Erfahrungen von Professorinnen und Professoren. WZB Mitteilungen, Issue 170, p. 25. https://bibliothek.wzb.eu/artikel/2020/f-23507.pdf (accessed on 08/21/2024).
de3	М	Beigang, S., Fetz, K., Kalkum, D., & Otto, M. (2017). Diskriminierungserfahrungen in Deutschland. Ergebnisse einer Repräsentativ- und einer Betroffenenbefragung. Ed. by Antidiskriminierungsstelle des Bundes. Baden-Baden: Nomos. p. 96, Figure 11. https://www.antidiskriminierungsstelle.de/SharedDocs/downloads/DE/publikationen/Expertisen/expertise_diskriminierungserfahrungen_in_deutschland.pdf (accessed on 08/22/2024).
de13	0	Beierlein, C., Kovaleva, A., Kemper, C. J., & Rammstedt, B. (2015). Kurzskala zur Erfassung der Risikobereitschaft (R-1). Zusammenstellung sozialwissenschaftlicher Items und Skalen (ZIS). https://doi.org/10.6102/zis236.

¹⁵ The instrument was used in consultation with the *Institut für Demoskopie Allensbach*. Further information and the original questionnaire are available on request from the archive of the *Institut für Demoskopie Allensbach*.

Table 10: Advanced Modules: Documentation of the origin of secondarily used questions

Question number	Original (O)/ Modified (M)	Citation
fi8	М	Stvilia, B., Wu, S. & Lee, D. J. (2018). Researchers' uses of and disincentives for sharing their research identity information in research information management systems. Journal of the Association for Information Science and Technology, 69(8), p. 1035-1045. https://doi.org/10.1002/asi.24019 (p. 1042).
dc1	М	Pscheida, D., Albrecht, S., Herbst, S., Minet, C. & Köhler, T. (2014): Nutzung von Social Media und onlinebasierten Anwendungen in der Wissenschaft: Erste Ergebnisse des Science 2.0-Survey 2013 des Leibniz-Forschungsverbunds "Science 2.0". Datenreport 2013, p. 46. http://nbn-resolving.de/urn:nbn:de:bsz:14-qucosa-132962 (accessed on 03/31/2025).
dc2	М	Pscheida, D., Albrecht, S., Herbst, S., Minet, C. & Köhler, T. (2014): Nutzung von Social Media und onlinebasierten Anwendungen in der Wissenschaft: Erste Ergebnisse des Science 2.0-Survey 2013 des Leibniz-Forschungsverbunds "Science 2.0". Datenreport 2013, p. 46. http://nbn-resolving.de/urn:nbn:de:bsz:14-qucosa-132962 (accessed on 03/31/2025).
dc3	М	Pscheida, D., Albrecht, S., Herbst, S., Minet, C. & Köhler, T. (2014): Nutzung von Social Media und onlinebasierten Anwendungen in der Wissenschaft: Erste Ergebnisse des Science 2.0-Survey 2013 des Leibniz-Forschungsverbunds "Science 2.0". Datenreport 2013, p. 47-48. http://nbn-resolving.de/urn:nbn:de:bsz:14-qucosa-132962 (accessed on 03/31/2025).
dc4	М	Pscheida, D., Albrecht, S., Herbst, S., Minet, C. & Köhler, T. (2014): Nutzung von Social Media und onlinebasierten Anwendungen in der Wissenschaft: Erste Ergebnisse des Science 2.0-Survey 2013 des Leibniz-Forschungsverbunds "Science 2.0". Datenreport 2013, p. 47-48. http://nbn-resolving.de/urn:nbn:de:bsz:14-qucosa-132962 (accessed on 03/31/2025).
dc8	М	Stančiauskas, Vilius & Banelytė, Viltė (2017). OpenUP survey on researchers' current perceptions and practices in peer review, impact measurement and dissemination of research results. OpenUP Survey Questionnaire, p. 12. https://doi.org/10.5281/zenodo.556157.
dc9	М	Stančiauskas, Vilius & Banelytė, Viltė (2017). OpenUP survey on researchers' current perceptions and practices in peer review, impact measurement and dissemination of research results. OpenUP Survey Questionnaire, p. 12-13. https://doi.org/10.5281/zenodo.556157.
rf14	М	German Centre for Higher Education Research and Science Studies (2024). National Academics Panel Study (Nacaps) 2018 – Survey 1. Data collection: 2019. Hanover: FDZ-DZHW. https://doi.org/10.21249/DZHW:nac2018:2.0.0. Questionnaire "Nacaps 2018. Variablenfragebogen zur National Academics Panel Study 2018 (1. Befragungswelle - Promovierende) (Deutsch)". Question B27, p. 75.

6.2 Overview: anonymized and generated variables

The overview only lists the variables which are anonymized (i.e. they only contain the missing "anonymized") or which may have been newly generated as "substitute variables" for anonymized variables. All other variables contained in the data but not listed here can be used without restriction.

In some cases, reference is made to specific lists/additional information, which can be found here:

- Destatis classification of states and territories (as at 01/01/2023): https://www.destatis.de/DE/Methoden/Klassifikationen/Staat-Gebietsystematik/Staatsangehoerigkeitsgebietsschluessel xls.xlsx (accessed on 07/03/2024)
- List of EU member states of the Federal Foreign Office: https://www.auswaertigesamt.de/de/aussenpolitik/europa/eu-mitgliedstaaten-node (accessed on 07/03/2024)
- Destatis overview of the countries' accession years to the European Community (EC) and the European Union (EU) over time: https://www.destatis.de/Europa/DE/Staat/EU-Staaten/ EU EZ Zeitverlauf.html (as at 09/26/2024)

Table 11: Core questionnaire: anonymized and generated variables

Variable name	Variable label	Anonymized vs. available in Remote-Desktop-SUF	Generation procedure
pid	Identification number (randomized)	available	randomized numbering of cases
wb2_r	Position, incl. recodings	anonymized	Source variable:
	based on open responses		wb2 (variable not included in the published data)
			Coding of texts from open responses:
			to existing categories of the source variable
			(The category "other academic position" is therefore no longer applicable.)
wb3	Type of professorship	anonymized	-
wb5	Doctorate	anonymized	-
posi	Status group (3 categories)	available	Source variables:
			wb2_r; wb5
			Aggregation of information from several nu-
			meric variables:
			to the categories
			- "Prof", if "professor" / "junior professor"
			- "Postdoc", if "assistant professor" / "re-
			search associate" and doctorate
			- "Predoc", if "assistant professor" / "re-
			search associate" and no doctorate (yet)
wb6y	Habilitation (year)	anonymized	-
wb6y_r	Habilitation (year), aggre-	available	Source variable:
	gated		wb6y
			Recoding:
			to the categories
			- "2010 and earlier"
			- "2011-2015"
			- "2016-2020"
			- "2021 and later"
wb7a	Current junior research group leadership	anonymized	-
wb7b	Former junior research	anonymized	-
	group leadership	- -	

wb7c	No junior research group leadership	anonymized	-
wb7_r	Junior research group leadership, aggregated	available	Source variables: wb7a; wb7b; wb7c
			Aggregation of information from several nu meric variables: to the categories
			 "No", if no current and no former junior re search group leadership mentioned
			 "Yes", if current or former junior research group leadership mentioned
wb8a1	Academic CV: university degree: year	anonymized	-
aage_hsa	Academic age based on university degree, only predocs	available	Source variables: wb8a1; posi
			Recoding: to the categories
			- "anonymized", if prof or postdoc
			 "Up to 1 year", if predoc and date of univer sity degree up to 1 year before survey year "2 to 3 years", if predoc and date of univer sity degree 2-3 years before survey year "4 to 5 years", if predoc and date of univer
			sity degree 4-5 years before survey year - "6 to 7 years", if predoc and date of univer sity degree 6-7 years before survey year - "8 to 9 years", if predoc and date of univer sity degree 8-9 years before survey year
			- "10 years and more", if predoc and date o university degree at least 10 years before
			survey year (calculation based on the years: 2023 minus year of university degree, therefore not ac-
wb8a2	Academic CV: university	anonymized	curate to the month/day)
	degree: country		
wb8a2_r	Academic CV: university degree: country, aggregated	available	Source variables: wb8a2; wb8a1
			Recoding:
			to the categories - "Germany"
			- "EC/EU"
			- "Europe without EC/EU" - "Other"
			according to Destatis classification of state
			and territories (as at 01/01/2023) and the lis of EU member states on the website of the Federal Foreign Office (as at 07/03/2024) in
			combination with the Destatis overview of the countries' accession years to the Euro pean Community (EC) and the European Un
			ion (EU) over time (as at 09/26/2024) (If the year was not specified, the assign-
			ment was based on the status at the time of the survey.)
wb8b1	Academic CV: doctorate: year	anonymized	-
aage_prom	Academic age based on doctorate	available	Source variable: wb8b1
			Recoding: to the categories
			- "Up to 2 years", if date of doctorate up to 2
			- - - - - - - - - -

Lota			- "3 to 5 years", if date of doctorate 3-5 years before survey year - "6 to 10 years", if date of doctorate 6-10 years before survey year - "11 to 15 years", if date of doctorate 11-15 years before survey year - "16 to 20 years", if date of doctorate 16-20 years before survey year - "21 to 30 years", if date of doctorate 21-30 years before survey year - "31 years and more", if date of doctorate at least 31 years before survey year (calculation based on the years: 2023 minus year of doctorate, therefore not accurate to the month/day)
wb8b2	Academic CV: doctorate: country	anonymized	-
wb8b2_r	Academic CV: doctorate: country, aggregated	available	Source variables: wb8b2; wb8b1 Recoding: to the categories - "Germany" - "EC/EU" - "Europe without EC/EU" - "Other" according to Destatis classification of states and territories (as at 01/01/2023) and the list of EU member states on the website of the Federal Foreign Office (as at 07/03/2024) in combination with the Destatis overview of the countries' accession years to the European Community (EC) and the European Union (EU) over time (as at 09/26/2024) (If the year was not specified, the assign-
			ment was based on the status at the time of the survey.)
wb8c1	Academic CV: first appointment: year	anonymized	-
wb8c1_r	Academic CV: first appointment: year, aggregated	available	Source variable: wb8c1 Recoding: to the categories - "1991 and earlier" - "2022/2023"
			(1992-2021 still shown separately)
wb8c2	Academic CV: first appointment: country	anonymized	-
wb8c2_r	Academic CV: first appointment: country, aggregated	available	Source variables: wb8c2; wb8c1 Recoding:
			to the categories - "Germany" - "EC/EU" - "Europe without EC/EU" - "Other" according to Destatis classification of states and territories (as at 01/01/2023) and the list of EU member states on the website of the Federal Foreign Office (as at 07/03/2024) in combination with the Destatis overview of the countries' accession years to the European Community (EC) and the European Union (EU) over time (as at 09/26/2024)

			(If the year was not specified, the assignment was based on the status at the time of the survey.)
wb9_r	DFG Review Board	anonymized	Source variable: wb9 (variable not included in the published data)
			Coding of texts from open responses: to existing categories of the source variable (categories correspond to the review boards according to the DFG classification of scientific disciplines, research areas, review boards and subject areas for the 2020-2024 term of office)
dfg10	DFG10 subject classifica- tion: research area, engi- neering sciences aggre-	available	Source variable: wb9_r
	gated		Recoding: to DFG research areas according to the DFG classification of scientific disciplines, research areas, review boards and subject areas for the 2020-2024 term of office, but with aggregated category "Engineering Sciences" (if "Production Technology", "Mechanics and Constructive Mechanical Engineering", "Process Engineering, Technical Chemistry", "Fluid Mechanics, Technical Thermodynamics and Thermal Energy Engineering", "Materials Engineering", "Materials Science", "Systems Engineering", "Electrical Engineering and Information Technology", "Computer Science" or "Construction Engineering and Architecture"; this corresponds to the scientific discipline "Engineering Sciences") (10 categories)
dfg5	DFG5 subject classifica- tion: scientific disciplines, humanities separately	available	Source variable: wb9_r
			Recoding: to DFG scientific disciplines according to the DFG classification of scientific disciplines, re search areas, review boards and subject ar- eas for the 2020-2024 term of office, but with more detailed categories within the DFG scientific discipline "Humanities and So cial Sciences" ("Humanities" and "Social and Behavioural Sciences" listed separately; this corresponds to the research areas) (5 cate- gories)
dfg4	DFG4 subject classifica- tion: scientific disciplines	available	Source variable: wb9_r
			Recoding: to DFG scientific disciplines (4 categories) according to the DFG classification of scientific disciplines, research areas, review boards and subject areas for the 2020-2024 term of office
wb11c	Functional role: organs of the DFG	anonymized	-
fb2y	Year of first permanent contract research associates	anonymized	-
fb2y_r	Year of first permanent contract research associates, aggregated	available	Source variable: fb2y
			Recoding: to the categories - "2000 and earlier" - "2001-2007"

			- "2022 and later"
			(2008-2021 still shown separately)
b3y	Year of first tenured pro- fessorship	anonymized	-
b3y_r	Year of first tenured pro-	available	Source variable:
	fessorship, aggregated		fb3y
			Recoding:
			to the categories
			- "1999 and earlier"
			- "2022 and later"
			(2000-2021 still shown separately)
fb4	Duration of contract	anonymized	-
b4_r	Duration of contract, ag-	available	Source variable:
	gregated		fb4
			Recoding:
			to the categories
			- "More than 4 to under 5 years"
			- "5 to under 6 years"
			- "6 and more years"
			(0-48 still shown separately)
fb6	Number of fixed-term contracts	anonymized	-
fb6_r	Number of fixed-term con-	available	Source variable:
	tracts, top-coded		fb6
			Recoding:
			to the category "More than 20 contracts"
			(0-20 still shown separately)
fb7	Weekly working hours: contractual	anonymized	-
fb7_r	Weekly working hours:	available	Source variable:
	contractual, rounded		fb7
			Recoding:
e			rounding of decimal places
fb8	Weekly working hours: ac- tual	anonymized	-
fb8_r	Weekly working hours: ac-	available	Source variable:
	tual, rounded		fb8
			Recoding:
			rounding of decimal places
wn1	Supervision of PhD stu- dents total: number	anonymized	-
wn1 r	Supervision of PhD stu-	available	Source variable:
AA11T_1	dents total: number, top- coded	αναιιαρίε	wn1
	Coucu		Pocoding
			Recoding:
			to the category "More than 10"
	First time supervision of	ananymizad	(0-10 still shown separately)
wn2	First-time supervision of PhD students: number	anonymized	-
wn2_r	First-time supervision of	available	Source variable:
_	PhD students: number,		wn2
	top-coded		
			Recoding:
			to the category "More than 10"
			(0-10 still shown separately)
ff1a	Number of applications submitted: DFG	anonymized	-
ff1a_r	Number of applications	available	Source variable:
	submitted: DFG, agg.	avanable	ff1a
	2, 466.		1120
			Recoding:
			to the categories
			to the categories

			- "4 to 10"
			- "More than 10"
			(0-3 still shown separately)
ff1b	Number of applications submitted: excellence strategy	anonymized	-
ff1b_r	Number of applications submitted: excellence	available	Source variable: ff1b
	strategy, agg.		Recoding:
			to the category "More than 2"
			(0-2 still shown separately)
ff1c	Number of applications submitted: BMBF	anonymized	-
ff1c_r	Number of applications submitted: BMBF, agg.	available	Source variable: ff1c
			Recoding:
			to the categories
			- "4 to 10"
			- "More than 10"
ff1 4	Number of early - 11 - 1	ananyori-ad	(0-3 still shown separately)
ff1d	Number of applications submitted: Europ. Union	anonymized	
ff1d_r	Number of applications	available	Source variable:
	submitted: Europ. Union, agg.		ff1d
			Recoding:
			to the categories - "2 to 10"
			- "More than 10"
			(0-1 still shown separately)
ff1e	Number of applications	anonymized	-
	submitted: national non- profit foundations		
ff1e_r	Number of applications submitted: national non- profit foundations, agg.	available	Source variable: ff1e
			Recoding:
			to the categories
			- "2 to 10"
			- "More than 10"
			(0-1 still shown separately)
ff1f	Number of applications submitted: other sponsors from industry/business	anonymized	-
ff1f_r	Number of applications	available	Source variable:
	submitted: other sponsors from industry/business,		ff1f
	agg.		Recoding:
			to the categories
			- "2 to 10"
			- "More than 10"
			(0-1 still shown separately)
ff1g	Number of applications submitted: other	anonymized	- Source variable:
ff1g_r	Number of applications submitted: other, agg.	available	Source variable: ff1g
			Recoding:
			to the categories
			- "2 to 10"
			- "More than 10"(0-1 still shown separately)
ff1h	Number of applications	anonymized	-
	approved: DFG		

	Number of applications approved: DFG, agg. (prof)	available	Source variables: ff1h; posi
			Recoding:
			If predoc or postdoc: to the category "does
			not apply"
			If prof: to the categories
			- "4 to 10"
			- "More than 10"
			(0-3 still shown separately)
ff1h_r2	Number of applications	available	Source variables:
	approved: DFG, agg. (post- doc + predoc)		ff1h; posi
			Recoding:
			If prof: to the category "does not apply"
			If predoc or postdoc: to the category "More
			than 2"
			(0-2 still shown separately)
ff1i	Number of applications approved: excellence strat-	anonymized	-
	egy	9.11	Commencedables
ff1i_r1	Number of applications approved: excellence strat-	available	Source variables:
	egy, agg. (prof + postdoc)		ff1i; posi
	-577 - 55 (1		Recoding:
			If predoc: to the category "does not apply"
			If prof or postdoc: to the categories
			- "2 to 10"
			- "More than 10"
			(0-1 still shown separately)
ff1i_r2	Number of applications	available	Source variables:
	approved: excellence strategy, agg. (predoc)		ff1i; posi
			Recoding:
			If prof or postdoc: to the category "does not
			apply"
			If predoc: to the category "1 and more"
			(0 still shown separately)
ff1j	Number of applications approved: BMBF	anonymized	-
ff1j_r1	Number of applications	available	Source variables:
	approved: BMBF, agg. (prof)		ff1j; posi
	(17)		Recoding:
			If predoc or postdoc: to the category "does
			not apply"
			not apply" If prof: to the categories
			not apply" If prof: to the categories - "4 to 10"
ff1j_r2	Number of applications	available	not apply" If prof: to the categories - "4 to 10" - "More than 10"
ff1j_r2	Number of applications approved: BMBF, agg. (postdoc)	available	not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately)
ff1j_r2	approved: BMBF, agg.	available	not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables:
ff1j_r2	approved: BMBF, agg.	available	not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding:
ff1j_r2	approved: BMBF, agg.	available	not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding:
ff1j_r2	approved: BMBF, agg.	available	not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding: If prof or predoc: to the category "does not
ff1j_r2	approved: BMBF, agg.	available	not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding: If prof or predoc: to the category "does not apply"
ff1j_r2	approved: BMBF, agg. (postdoc) Number of applications	available	not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding: If prof or predoc: to the category "does not apply" If postdoc: to the category "More than 3"
	approved: BMBF, agg. (postdoc)		not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding: If prof or predoc: to the category "does not apply" If postdoc: to the category "More than 3" (0-3 still shown separately)
	approved: BMBF, agg. (postdoc) Number of applications approved: BMBF, agg.		not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding: If prof or predoc: to the category "does not apply" If postdoc: to the category "More than 3" (0-3 still shown separately) Source variables:
	approved: BMBF, agg. (postdoc) Number of applications approved: BMBF, agg.		not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding: If prof or predoc: to the category "does not apply" If postdoc: to the category "More than 3" (0-3 still shown separately) Source variables: ff1j; posi Recoding: If prof or postdoc: to the category "does not
	approved: BMBF, agg. (postdoc) Number of applications approved: BMBF, agg.		not apply" If prof: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) Source variables: ff1j; posi Recoding: If prof or predoc: to the category "does not apply" If postdoc: to the category "More than 3" (0-3 still shown separately) Source variables: ff1j; posi

ff1k	Number of applications		
	approved: Europ. Union	anonymized	-
ff1k_r	Number of applications	available	Source variable:
	approved: Europ. Union,		ff1k
	agg.		
			Recoding:
			to the category "More than 2"
			(0-2 still shown separately)
ff1l	Number of applications	anonymized	-
	approved: national non-		
	profit foundations		
ff1l_r	Number of applications	available	Source variable:
	approved: national non-		ff1l
	profit foundations, agg.		
			Recoding:
			to the category "More than 2"
			(0-2 still shown separately)
ff1m	Number of applications	anonymized	-
	approved: other sponsors		
	from industry/business		
ff1m_r1	Number of applications	available	Source variables:
	approved: others indus-		ff1m; posi
	try/business, agg. (prof + postdoc)		0
	postdocj		Recoding:
			If predoc: to the category "does not apply"
			If prof or postdoc: to the categories
			- "4 to 10"
			- "More than 10"
			(0-3 still shown separately)
ff1m_r2	Number of applications	available	Source variables:
	approved: others indus-		ff1m; posi
	try/business, agg. (predoc)		0
			Recoding:
			If prof or postdoc: to the category "does no
			apply"
			If predoc: to the category "More than 2"
			(0.2 still shown congrately)
ff1n	Number of applications	ananymizad	(0-2 still shown separately)
ff1n	Number of applications approved: other	anonymized	(0-2 still shown separately)
		anonymized available	(0-2 still shown separately) - Source variable:
	approved: other		-
ff1n ff1n_r	approved: other Number of applications		- Source variable:
	approved: other Number of applications		- Source variable:
	approved: other Number of applications		Source variable: ff1n
	approved: other Number of applications		Source variable: ff1n Recoding:
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications re-		Source variable: ff1n Recoding: to the category "More than 4"
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately)
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications re-	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable:
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately)
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications re-	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications re-	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff10 Recoding:
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications re-	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) Source variable: ff1o Recoding: to the categories
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications re-	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10"
ff1n_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications re-	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10"
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications rejected: DFG, agg.	available anonymized available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10"
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications rejected: DFG, agg.	available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10"
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications rejected: DFG, agg. Number of applications rejected: excellence strategy	available anonymized available anonymized	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately)
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications rejected: DFG, agg. Number of applications rejected: excellence strategy Number of applications rejected: excellence strategy	available anonymized available	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variable:
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications re- jected: DFG Number of applications re- jected: DFG, agg. Number of applications re- jected: excellence strategy Number of applications re- jected: excellence strategy,	available anonymized available anonymized	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately)
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications rejected: DFG Number of applications rejected: DFG, agg. Number of applications rejected: excellence strategy Number of applications rejected: excellence strategy	available anonymized available anonymized	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variable: ff1p
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications re- jected: DFG Number of applications re- jected: DFG, agg. Number of applications re- jected: excellence strategy Number of applications re- jected: excellence strategy,	available anonymized available anonymized	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variable: ff1p Recoding:
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications re- jected: DFG Number of applications re- jected: DFG, agg. Number of applications re- jected: excellence strategy Number of applications re- jected: excellence strategy,	available anonymized available anonymized	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variable: ff1p Recoding: to the categories
ff1n_r ff10 ff10_r	approved: other Number of applications approved: other, agg. Number of applications re- jected: DFG Number of applications re- jected: DFG, agg. Number of applications re- jected: excellence strategy Number of applications re- jected: excellence strategy,	available anonymized available anonymized	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variable: ff1p Recoding: to the categories - "2 to 10"
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications re- jected: DFG Number of applications re- jected: DFG, agg. Number of applications re- jected: excellence strategy Number of applications re- jected: excellence strategy,	available anonymized available anonymized	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variable: ff1p Recoding: to the categories - "2 to 10" - "More than 10"
ff1n_r ff1o ff1o_r	approved: other Number of applications approved: other, agg. Number of applications re- jected: DFG Number of applications re- jected: DFG, agg. Number of applications re- jected: excellence strategy Number of applications re- jected: excellence strategy,	available anonymized available anonymized	Source variable: ff1n Recoding: to the category "More than 4" (0-4 still shown separately) - Source variable: ff1o Recoding: to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variable: ff1p Recoding: to the categories - "2 to 10"

ff1q_r	Number of applications rejected: BMBF, agg.	available	Source variable: ff1q
			Pacading
			Recoding: to the categories
			- "4 to 10"
			- "More than 10"
			(0-3 still shown separately)
ff1r	Number of applications rejected: Europ. Union	anonymized	-
ff1r r	Number of applications re-	available	Source variable:
_	jected: Europ. Union, agg.		ff1r
			Recoding:
			to the categories
			- "4 to 10"
			- "More than 10"
CC4 -	Nl C P P		(0-3 still shown separately)
ff1s	Number of applications re- jected: national non-profit foundations	anonymized	-
ff1s_r	Number of applications re-	available	Source variable:
	jected: national non-profit foundations, agg.		ff1s
			Recoding:
			to the categories
			- "2 to 10"
			- "More than 10"
			(0-1 still shown separately)
ff1t	Number of applications rejected: other sponsors from industry/business	anonymized	-
ff1t_r	Number of applications re-	available	Source variable:
	jected: other sponsors from industry/business,	available	ff1t
	agg.		Recoding:
			to the categories
			- "2 to 10"
			- "More than 10"
**			(0-1 still shown separately)
ff1u	Number of applications re- jected: other	anonymized	-
ff1u_r	Number of applications re-	available	Source variable:
	jected: other, agg.		ff1u
			Recoding:
			9
			to the categories - "4 to 10"
			to the categories
			to the categories - "4 to 10"
pu1a	Number of publications: original articles	anonymized	to the categories - "4 to 10" - "More than 10"
-	·	anonymized available	to the categories - "4 to 10" - "More than 10" (0-3 still shown separately)
-	original articles		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately)
pu1a pu1a_r1	original articles Number of publications: original articles, agg. (prof		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variables: pu1a; posi Recoding:
-	original articles Number of publications: original articles, agg. (prof		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variables: pu1a; posi Recoding: If predoc: to the category "does not apply"
-	original articles Number of publications: original articles, agg. (prof		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variables: pu1a; posi Recoding: If predoc: to the category "does not apply" If prof or postdoc: to the categories
-	original articles Number of publications: original articles, agg. (prof		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variables: pu1a; posi Recoding: If predoc: to the category "does not apply" If prof or postdoc: to the categories - "5 to 19"
-	original articles Number of publications: original articles, agg. (prof		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variables: pu1a; posi Recoding: If predoc: to the category "does not apply" If prof or postdoc: to the categories - "5 to 19" - "20 to 34"
-	original articles Number of publications: original articles, agg. (prof		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variables: pu1a; posi Recoding: If predoc: to the category "does not apply' If prof or postdoc: to the categories - "5 to 19" - "20 to 34" - "35 to 49"
-	original articles Number of publications: original articles, agg. (prof		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variables: pu1a; posi Recoding: If predoc: to the category "does not apply" If prof or postdoc: to the categories - "5 to 19" - "20 to 34" - "35 to 49" - "50 to 64"
-	original articles Number of publications: original articles, agg. (prof		to the categories - "4 to 10" - "More than 10" (0-3 still shown separately) - Source variables: pu1a; posi Recoding: If predoc: to the category "does not apply' If prof or postdoc: to the categories - "5 to 19" - "20 to 34" - "35 to 49"

pu1a_r2	Number of publications: original articles, agg. (predoc)	available	Source variables: pu1a; posi
	400)		Recoding: If prof or postdoc: to the category "does no
			apply" If predoc: to the categories
			- "5 to 19"
			- "20 to 34"
			- "More than 34"
1h	Nihanafahliaatiana.		(0-4 still shown separately)
pu1b	Number of publications: review articles	anonymized	
pu1b_r	Number of publications: review articles, agg.	available	Source variable:
	review articles, agg.		pu1b
			Recoding:
			to the categories
			- "4 to 10"
			- "More than 10"
	No. of a little Co.		(0-3 still shown separately)
pu1c	Number of publications: monographs	anonymized	-
pu1c_r	Number of publications:	available	Source variable:
	monographs, agg.		pu1c
			Recoding:
			to the category "More than 1"
			(0-1 still shown separately)
pu1d	Number of publications: book contributions	anonymized	-
pu1d_r1	Number of publications:	available	Source variables:
	book contributions, agg. (prof + postdoc)		pu1d; posi
			Recoding:
			If predoc: to the category "does not apply" If prof or postdoc: to the categories
			- "3 to 5"
			- "6 to 10"
			- "More than 10" (0-2 still shown separately)
pu1d r2	Number of publications:	available	Source variables:
pulu_12	book contributions, agg. (predoc)	avanusic	pu1d; posi
			Recoding:
			If prof or postdoc: to the category "does no
			apply"
			If predoc: to the categories - "3 to 5"
			- "More than 5"
			(0-2 still shown separately)
pu1e	Number of publications: special issues	anonymized	-
pu1e_r	Number of publications:	available	Source variable:
	special issues, agg.		pu1e
			Recoding:
			to the category "More than 2"
pu1f	Number of publications:	anonymized	(0-2 still shown separately) -
	commentaries	· 	
pu1f_r	Number of publications: commentaries, agg.	available	Source variable: pu1f
			Recoding:
			to the category "More than 2"
			(0-2 still shown separately)

pu1g	Number of publications: editorials	anonymized	-
ou1g_r	Number of publications:	available	Source variable:
	editorials, agg.		pu1g
			Recoding:
			to the category "More than 2"
			(0-2 still shown separately)
pu1h	Number of publications: manuals	anonymized	-
pu1h_r	Number of publications:	available	Source variable:
	manuals, agg.		pu1h
			Recoding:
			to the category "More than 2"
			(0-2 still shown separately)
pu8a	Assessor activity: journal	anonymized	-
 ou8a_r	articles Assessor activity: journal	available	Source variable:
<u>-</u> -	articles, agg.		pu8a
			- "
			Recoding: to the categories
			- "11 to 15"
			- "11 to 15 - "16 to 20"
			- "21 to 30"
			- "More than 30"
			(0-10 still shown separately)
pu8b	Assessor activity: grant ap-	anonymized	-
pu8b_r	plications Assessor activity: grant ap-	available	Source variable:
Juon_i	plications, agg.	available	pu8b
			Recoding:
			to the categories
			- "3 to 10"
			- "11 to 19" - "More than 19"
			(0-2 still shown separately)
pu8c	Assessor activity: partici-	anonymized	-
	pation in evaluation proce-	,	
pu8c r	Assessor activity: partici-	available	Source variable:
_	pation in evaluation proce-	-	pu8c
	dures, agg.		
			Recoding:
			to the categories
			- "2 to 4"
			- "More than 4" (0-1 still shown separately)
pu8d	Assessor activity: partici-	anonymized	
	pation in accreditation		
0.1	procedures		Commence
pu8d_r	Assessor activity: partici-	available	Source variable:
	pation in accreditation procedures, agg.		pu8d
			Recoding:
			to the category "More than 2"
 ou8e	Assessor activity: appeal	anonymized	(0-2 still shown separately)
	procedures		
pu8e_r	Assessor activity: appeal	available	Source variable:
	procedures, agg.		pu8e
			Recoding:
			=
			to the category "More than 3"

pu8f	Assessor activity: doctoral theses	anonymized	-
pu8f_r	Assessor activity: doctoral theses, agg.	available	Source variable: pu8f
			- "
			Recoding:
			to the categories - "3 to 10"
			- "More than 10"
			(0-2 still shown separately)
pv2b	Leaving academia: health	anonymized	-
P. 2.	problems		
de1	Gender	anonymized	-
de1_r	Gender, without diverse	available	Source variable:
			de1
			Deserving
			Recoding:
			to the category "diverse or question not an
			swered", if "diverse" or "question not an- swered"
			swered ("Male" and "Female" still shown sepa-
			rately)
de2	Year of birth	anonymized	-
de3a	Experiences of discrimina-	anonymized	-
	tion: ethnic origin		
de3b	Experiences of discrimina-	anonymized	-
	tion: gender/gender iden-		
de3c	tity Experiences of discrimina-	anonymized	
desc	tion: religion or belief	anonymizeu	
de3d	Experiences of discrimina-	anonymized	-
	tion: age	•	
de3e	Experiences of discrimina-	anonymized	-
	tion: sexual orientation		
de3f	Experiences of discrimina-	anonymized	-
	tion: disability or chronic		
de3g	illness Experiences of discrimina-	anonymized	
acos	tion: social background	anonymizea	
de3h	Experiences of discrimina-	anonymized	-
	tion: none		
de5_r	Country of birth, recoded	anonymized	Source variables:
			de5a; de5o (variable not included in the pub-
			lished data)
			Standa Coding of touts from any angular
			Step 1: Coding of texts from open responses
			to countries
			Step 2: Aggregation of information from sev
			eral numeric variables:
			- if born "In Germany" or if born "In another
			country" and open response coded to cate
			gory "Germany (incl. FRG & GDR before
			1990)", the category "Germany (incl. FRG &
			GDR before 1990)" was assigned
			- if born "In another country" and open re-
			sponse coded to another category than
			"Germany (incl. FRG & GDR before 1990)",
			this country category was adopted
de5b_r	Country of birth recoded,	available	Source variables:
	aggregated		de5_r; de2
			Pocoding:
			Recoding: to the categories
			to the categories - "Germany"
			- "EC/EU"
			- "Europe without EC/EU"
			- "Other"
			- "Utner"

			according to Destatis classification of state and territories (as at 01/01/2023) and the lis of EU member states on the website of the Federal Foreign Office (as at 07/03/2024) in combination with the Destatis overview of the countries' accession years to the European Community (EC) and the European Union (EU) over time (as at 09/26/2024) (If the year was not specified, the assignment was based on the status at the time of the survey.)
de4	Migration: year of arrival in Germany	anonymized	-
de10	Children: number	anonymized	-
de10_r	Children: number, aggre-	available	Source variable:
	gated		de10
			Recoding:
			to the category "3 and more children"
			(0-2 still shown separately)
de11a	Children: age 1st child, cat- egorized	anonymized	-
de11b	Children: age 2nd child, categorized	anonymized	-
de11c	Children: age 3rd child, categorized	anonymized	-
de11d	Children: age 4th child, categorized	anonymized	-
de11e	Children: age 5th child, categorized	anonymized	-
de11f	Children: age 6th child, categorized	anonymized	-
de11_r	Children: age, aggregated	available	Source variables:
			de10_r; de11a; de11b; de11c; de11d; de11e de11f
			Aggregation of information from several numeric variables:
			to the categories
			- "No children or no age specified", if no chi
			dren or no age specified for child/children
			- "At least one child 12 or younger", if at leas
			one child <= 12 years old
			- "No child 12 or younger", if no child <= 12 years old

Table 12: Advanced Modules: anonymized and generated variables

Variable name	Variable label	Anonymized vs. available in Remote-Desktop-SUF	Generation procedure
fi1b	MA: Channel to publish re- search information: own	anonymized	-
fi1h	website/blog MA: Channel to publish re-	anonymized	-
	search information: other	·	
fi1_r	MA: Channel to publish re- search information: other	available	Source variables: fi1b; fi1h
	(incl. own website/blog)		1110; 11111
			Aggregation of information from several nu-
			meric variables:
			to the categories - "Yes", if own website/blog or other channel
			used
			- "No", if neither own website/blog nor other
			channel used
wm3a	MC: Financial support: Humboldt-Scholar Pro-	anonymized	-
	gramme		
wm3b	MC: Financial support: Ma- rie Curie Fellowship Pro-	anonymized	-
	gramme		
wm3c	MC: Financial support: ex- change programme of	anonymized	-
	DAAD for doctoral stu-		
wm3d	dents MC: Financial support: ex-	anonymized	-
	change programme of DAAD for postdocs		
wm3e	MC: Financial support: an-	anonymized	-
wm3_r	other fund MC: Financial support:	available	Source variables:
wiii3_i	funding source for stay abroad mentioned	avanasic	wm3a; wm3b; wm3c; wm3d, wm3e
			Aggregation of information from several nu-
			meric variables:
			to the categories
			- "Yes", if Humboldt-Scholar Programme of
			the Alexander von Humboldt Foundation, Marie Curie Fellowship Programme of the
			European Commission, exchange pro-
			gramme of the German Academic Exchange
			Service (DAAD) for doctoral students or post-
			docs or another fund for a stay abroad men-
			tioned
			- "No", if no funding source for a stay abroad
			mentioned (Note: There are some inconsistencies be-
			tween the information provided by the re-
			spondents in the variables wm3a-e and the
			variable wm3f, which can also be seen be-
			tween the variables wm3_r and wm3f).
wm4	MC: Country of stay abroad	anonymized	-
wm4_r	MC: Country of stay	available	Source variable:
	abroad, aggregated		wm4
			Recoding:
			to the categories
			- "Germany" - "EU"
			- EU - "Europe without EU"

			according to Destatis classification of states and territories (as at 01/01/2023) and the list of EU member states on the website of the Federal Foreign Office (as at 07/03/2024)
wm5	MC: Duration of stay abroad	anonymized	-
wm5_r	MC: Duration of stay abroad, aggregated	available	Source variable: wm5
			Recoding: to the categories - "Up to 3 months", if "Up to 1 month" or "2 to 3 months"
			- "4 to 12 months" if "4 to 6 months" or "7 to 12 months" ("Longer than 1 year" still shown separately)
wm10_r	MC: Stay abroad: recoded, number of publications	anonymized	Source variable: wm10o (variable not included in the pub- lished data)
			Transformation of numerical values in string format to numeric format
wm10_r2	MC: Stay abroad: recoded, number of publications, agg.	available	Source variable: wm10_r
	-00		Recoding: to the categories
			- "4 to 5" - "6 to 10"
			- "More than 10" (0-3 still shown separately)
wm14	MC: Cooperation supervi- sor: country of research in- stitution	anonymized	-
wm14_r	MC: Cooperation supervi- sor: country of research in- stitution, aggregated	available	Source variable: wm14
	, 65 6		Recoding:
			to the categories
			- "Germany"
			- "EU" - "Europe without EU"
			 "Other" according to Destatis classification of states
			and territories (as at 01/01/2023) and the list
			of EU member states on the website of the
.(c	AAD Formal ada to a start		Federal Foreign Office (as at 07/03/2024)
rf6_r	MD: Formal role in project MD: Formal role in project, aggregated	anonymized available	Source variable:
			Recoding:
			to the category "Project lead or collaborative
			project management", if "Project Lead" or
			"Collaborative project management" ("Collaborator", "Other, namely" and "Don't
			know" still shown separately)
rf7	MD: Funding volume of last application	anonymized	-
rf7_r	MD: Funding volume of last application, aggregated	available	Source variable: rf7
			Recoding:
			to the categories - "up to 100.000 €", if "up to 50.000 €" or
			"more than 50.000 € up to 100.000 €"

			- "more than 400.000 € up to 1.000.000 €" if "more than 400.000 € up to 700.000 €" or "more than 700.000 € up to 1.000.000 €" ("more than 100.000 € up to 400.000 €", "more than 1.000.000 €" and "Don't know/no answer" still shown separately)
rf13	MD: Gender supervisor	anonymized	-
rf13_r	MD: Gender supervisor, without diverse	available	Source variable: rf13
			Recoding: to the category "diverse or question not answered", if "diverse" or "question not answered" ("male", "female" and "don't know/no answer" still shown separately)
rf14	MD: Gender doctoral su- pervisor	anonymized	-
rf14_r	MD: Gender doctoral su- pervisor, without diverse	available	Source variable: rf14
			Recoding: to the category "diverse or question not answered", if "diverse" or "question not answered" ("It is the same person", "male", "female" and "No answer" still shown separately)
prpen3	MG: Commuting: distance in kilometers	anonymized	-
prpen3_r	MG: Commuting: distance in kilometers, aggregated	available	Source variable: prpen3
			Recoding: to the categories - "Short-distance commuter up to 50km" - "Short-distance commuter 51-150km" - "Long-distance commuter 151-250km" - "Long-distance commuter from 251km"