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Supplement of

Geoscientists' views about science communication: predicting willingness to communicate geoscience

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Supplementary Material A

Survey on geoscience communication practices and perceptions (*), (**)

	Indicator	Question
		Biographical profile
	Age	Q1. Age: < 30, 30-40, 41-50, > 50 years old
	Gender	Q2. Gender: Female, Male, Other
	Gender	Q3. Academic degree
<u>e</u>	Academic context	Q4. Degree area
ofi]	Academic context	Q10. Did you receive any training in communication? Yes, no
Biographical profile		Q5. Area of expertise
cal	Area of expertise	Q6. How do you describe your scientific area? Pure; applied
) iğ	Professional	Q7. Professional Category: post graduation student; technician; researcher; higher education
rap		professor; elementary and secondary education teacher; science communicator, other
og o	category Professional	professor, elementary and secondary education teacher, science communicator, other
Bi		Q9. Professional experience: < 5, 5-10, 10-20, > 20 years
	experience	
	Geographical context	Q8. Location of the institution where you work
		Experiences / Practices
	Engane	Q12. How many science communication activities have you carried out in the last year? More
	Frequency	than 10; 4-9; 1-3, none
		What kind of science communication activities do you usually promote?
		(Never; rarely; usually; often)
		Q11.1 Field trips
		Q11.2 Visits to Museums
		Q11.3 Visits to Science Centres
		Q11.4 Visits to research institutions
		Q11.5 Workshops
	Type of activities	Q11.6 Exhibitions
		Q11.7 Public lectures
		Q11.8 Public Debates / Clarification Sessions
		Q11.9 Science Exhibitions (exhibitions, fairs,)
		Q11.10 Books
Š		Q11.11 Scientific papers
ice		Q11.12 Popular science news articles
Practices		Q11.13 Opinion articles
Pr		Q20. What kind of science communication initiatives in general have you participated in
sa /		[Portuguese initiatives]?
nce		Select: Science Cafes (Ciência Viva); '90 seconds science' (radio show); Tertúlias
rie		FNACiência (public talks); Pint of Science; PubHD; Scientific Culture Day; Science and
Experiences		Technology Week; European Researchers' Night; Other Q21. What type of geoscience communication initiatives have you participated in [Portuguese
囹		initiatives]?
		Select: Living Science in Summer – Geology in Summer; Geologist's Day; European
		Geoparks Week; Mine Route Week, Other
		In what contexts do you promote communication activities?
		(Never; rarely; usually; often)
	Contexts	Q18.1 Formal (schools, universities,)
		Q18.2 Informal (museums, geosites, protected areas,)
		Q18.3 Unconventional (market, shopping centre, street,)
		Q22. Indicate the four places in Portugal where you carried out more geoscience
		communication activities
		What audience do you usually communicate with?
		(Never; rarely; usually; often)
	Audiences	Q13.1 Journalists
		Q13.2 Science journalists
		Q13.3 Students

	Totala
	Q13.4 Geosciences teachers
	Q13.5 Teachers (other fields)
	Q13.6 Geoscience technical professionals
	Q13.7 Technical professionals (other fields)
	Q13.8 Enterprises
	Q13.9 Researchers in Geosciences
	Q13.10 Researchers (other fields) Q13.11 Families
	Q13.11 Painties Q13.12 Politicians
	Q13.13 NGOs
	Q13.13 NGOS Q13.14 Local communities
	Q13.14 Eocal communities Q13.15 'General Public'
	What kind of science communication activities do you do, targeted at peers?
	(Never; rarely; usually; ofter
	Q14.1 Scientific meetings and congresses
	Q14.2 Scientific publications
	Q14.3 Use of Academia platform
Peer	Q14.4 Use of LinkedIn Platform
communication	Q14.5 Use of Researchgate Platform
	Q14.6 Participation in online forums
	Q28. Have you participated in scientific meetings/congress sessions dedicated to Science
	Communication? Yes, no
	Q29. Have you made scientific publications on science communication? Yes, no
	How do you participate in the communication of your institution (newsletter, internal
	newspaper, website, social media, etc.)?
·	(Never; rarely; usually; often
Institutional	Q15.1 Sending scientific content
communication	Q15.2 Sending papers and recent research results
	Q15.3 Disseminating the participation in scientific events
	Q15.4 Disseminating of science communication activities
	What kind of science communication activities do you do, targeted at policy makers?
Communication	(Never; rarely; usually; often
with policy	Q16.1 Clarification sessions
makers	Q16.2 Meetings
	Q16.3 Non-technical reports
	What kind of science communication activities do you do, targeted at media?
	(Never; rarely; usually; often
	Q17.1 Give an interview for the media (newspaper, radio or TV)
Media	Q17.2 Participation in media debate
	Q17.3 Sending a scientific press release
	Q17.4 Text production for popular science magazines
	Q17.5 Making opinion texts for non-specialist media
	Q17.6 Support journalists in clarifying scientific questions
	Have you performed any of the following science communication activities?
Dortioimatar:	(Never; 1 time; 2-3; more than 4 time
Participatory	Q19.1 Citizen Science Activity Q19.2 Public clarification session
contexts	Q19.3 Debate with local communities
	Q19.4 Focus groups Q23. Have you already carried out any communication actions in a Geopark in Portugal? Yes
Geoparks	no
	Q24. If you answered yes to the previous question (Q23), indicate which one(s)?
	Which online platforms do you use to communicate science?
	(Never; rarely; usually; ofte
	Q25.1 Email
	Q25.2 Personal blog
N 11 1 1 10	Q25.3 Institutional blog
Online mlotfa	
Online platforms	Q25.4 Personal website
Online platforms	Q25.4 Personal website Q25.5 Institutional website
Online platforms	Q25.5 Institutional website Q25.6 Facebook (personal account)
Online platforms	Q25.5 Institutional website

		Logs off the Control of the Control
		Q25.9 Twitter (institutional account)
		Q25.10 YouTube (personal account)
		Q25.11 YouTube (institutional account) Q25.12 Instagram (personal account)
		Q25.12 Instagram (personal account) Q25.13 Instagram (institutional account)
		What content related to Geosciences do you share on your social media?
		(Never; rarely; usually; often)
		Q26.1 Information related to work at my institution
		Q26.2 Information related to places where I do fieldwork
		Q26.3 Events in which I participate
		Q26.4 Events in my area that I find interesting, even if I don't participate
		Q26.5 News related to my work
		Q26.6 News related to colleagues I know
		Q26.7 Geoscience news that I find interesting
		Q26.8 Clarifications and opinions in discussion groups
	Geoscientific	Q27. Indicate three geosciences topics on which you do communication activities.
	topics	
		Representations / Perceptions
	Perception of personal	Q30.1 Do you fell with the necessary skills to communicate science? Q30.2 Do you fell prepared to communicate about the social and ethical implications of
	preparation	science? (Not prepared at all; moderately prepared; well prepared; very well prepared; I don't know)
		In your opinion, (Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree;
	Position on	strongly agree)
	responsibility	Q36.2 do scientists have a moral duty to engage with the non-expert public about the social
		and ethical implications of their work? Q36.5 would you like to be forced to take a public position on the issues raised by your work?
	Interest in training	Q31. How willing would you be to attend training on communication with journalists and the public? Very willing; moderately willing, not willing at all
	T :	Q32. Regarding your entire professional activity, how important is it for you to find time to
	Time	engage with non-specialist audiences? Not at all important; not very important; equally
		important; quite important; very important Q33. To what degree does your institution value communication activities? High; medium;
Representations / Perceptions	Institution attitude	low
ept		What are your goals when you communicate science?
erc		(Disagree; moderately agree; strongly agree)
/ P		Q34.1 to make the importance of geosciences in everyday life known
suc		Q34.2 to show that geosciences are interesting
atio		Q34.3 to share my passion for geosciences
ent		Q34.4 to ensure that the public is better informed about science and technology Q34.5 to enable citizens to make more informed decisions
res	Objectives	Q34.5 to transmit the values of science
ері	Objectives	Q34.7 to support policy makers
R		Q34.8 to know people's opinion on geoscientific topics
		Q34.9 to make my work known
		Q34.10 to contribute to public debates about science
		Q34.11 to know the implication of geosciences and of my work in citizens' life
		Q34.12 to attract professionals to my area
		Q34.13 to promote the public image of my institution
		Why do you do science communication? (Disagree; moderately agree; strongly agree)
		Q35.1 It is part of my professional duties
	Matinetica	Q35.2 To attract research funding
	Motivations	Q35.3 Because funded research projects require
		Q35.4 To respond the requests of my institution
		Q35.5 To respond to invitations (colleagues, journalists, teachers, entities)
		Q35.6 It is scientist's duty
	Perceptions about	In your opinion: Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree; strongly
	the scientific field	Strongly disagree; moderately disagree; nettner agree nor disagree; moderately agree; strongly agree
		ı agıcı

Q36.1 Has your work implications for society and/or policy makers? Q36.3 Is your work interesting to non-specialist audiences? What obstacles do you find in the science communication? (Disagree; moderately agree; strongly agree) Q37.1 lack of time Q37.2 lack of financial support Q37.3 discomfort in communicating with lay audiences Q37.4 lack of preparation/training Q37.5 lack of public interest Q37.6 lack of public interest Q37.6 lack of public knowledge Q37.7 negative opinion by peers Q37.8 these activities make science less rigorous Q37.9 the complexity of my scientific field Q37.10 fear of creating misunderstandings and generating controversy Q37.11 misrepresentation of scientific content by journalists Which geoscience topic do you consider: Q38 most pertinent to communicate? Q39 most difficult to communicate? Q40 easier to communicate? Q41 more attractive to communicate? Q41 more attractive to communicate? Q42 List the most effective communication channels Book, Leaflet/Brochure, Panel, Interactive module, Game, Video, Social media post, News in the media, Scientific paper, Popular science article, Public debate, TV interview In your opinion: (Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree strongly agree Q43.1 The news coverage on geoscience is adequate. Q43.2 The media are more interested in negative stories about geoscience. Q43.3 The media are more interested in sensationalism than scientific truth. Q43.4 Geosciences are too complex to be communicated in the media. Q43.5 Journalists are not scientifically prepared to work on geoscience topics. Q43.6 In your opinion, engagement with non-specialist audiences is better done by trained professionals and journalists? Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree; strongly agree Which entities do you trust to do geosciences communication (I don't trust; I trust a little; I trust; I trust a lo
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Q44.2 Science Centres
Q44.3 Universities
Trust in Q44.4 Geoparks
information Q44.5 City councils
Q44.6 Governmental institutions
Q44.7 Elementary and secondary schools
Q44.8 TV
Q44.9 Newspapers
Q44.10 Popular science magazines
Q36.7 In your opinion, engaging non-specialist audiences in science is personally rewarding.
Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree; strongly
Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree; strongl agree
Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree; strongl agree Personal experience and Q45. What do you think about the number of activities you do annually? Reduced; fair; good
Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree; strongl agree Personal experience and satisfaction Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree; strongl agree Q45. What do you think about the number of activities you do annually? Reduced; fair; good very good; excessive
Strongly disagree; moderately disagree; neither agree nor disagree; moderately agree; strongl agree Personal experience and Q45. What do you think about the number of activities you do annually? Reduced; fair; good

^{*} The results referring to the 30 indicators studied in the scope of this work are available in supplementary material D.

^{**} For convenience of statistical analysis some results were recoded for the present study, as in the supplementary material B and C.

Supplementary Material B

Statistic model

Frequencies

Frequencies		
Syntax		FREQUENCIES VARIABLES=Q10_Tra ining Q12_Activities Q1_Age Q23_Geoparks Q2_Gender Q30.1_Skills Q31_training Q33_Appreciation Q36.1_implications_So ciety Q37.10_Controversy
		Q37.11_Misrepresentati ons Q37.1_Lack_Time Q37.2_Lack_Support Q37.3_Discomfort Q37.4_Lack_Training Q37.5Lack_interest Q37.6_Lack_Knowledg e Q37.7_Negative_Opinio
		n Q37.8_Pouco_Rigor Q37.9_Topic_Complexi ty Q45_Number_Activitie s Q46_SciCom_Experien ce Q5_Expertise
Resources	Processor Time	Q7_Professional_catego ry Q9_Work_Experience /ORDER=ANALYSIS. 00:00:00,05
	Elapsed Time	00:00:00,01

Statistics

		Q10_Trainin	Q12_Activiti	Q:	23_Geopar	
		g	es	Q1_Age	ks Q	2_Gender
N	Valid	179	179	179	178	179
	Missing	0	0	0	1	0
Stati	istics					
					Q36.1_implic	
				Q33_Appreci	ations_Societ	Q37.10_Cont
		Q30.1_Skills	Q31_training	ation	y	roversy
N	Valid	178	179	179	179	179
	Missing	1	0	0	0	0
Stati	istics					
		Q37.11_Misr				
		epresentation	Q37.1_Lack_	Q37.2_Lack_	Q37.3_Disco	Q37.4_Lack_
		S	Time	Support	mfort	Training
N	Valid	179	179	179	179	179
	Missing	0	0	0	0	0
Stati	istics					
		Q37.5Lack_i	Q37.6_Lack_	Q37.7_Negat	Q37.8_Pouco	Q37.9_Topic
		nterest	Knowledge	ive_Opinion	_Rigor	_Complexity

Sta		

Valid

Missing

N

	Q45_Number Q46_SciCom		Q7_Professio	Q9_Work_E		
		_Activities	_Experience	Q5_Expertise	nal_category	xperience
N	Valid	179	179	156	169	179
	Missing	0	0	23	10	0

Frequency Table

Q10_Training

~	,			
				Cumulative
	Frequency	Percent	Valid Percent	Percent

Valid	Yes	38	21,2	21,2	21,2
	No	141	78,8	78,8	100,0
	Total	179	100,0	100,0	

Q12_Activities

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	no_activities	21	11,7	11,7	11,7
	one_to_three	60	33,5	33,5	45,3
	four_or_more	98	54,7	54,7	100,0
	Total	179	100,0	100,0	

Q1_Age

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	<30	29	16,2	16,2	16,2
	30-40	50	27,9	27,9	44,1
	41-50	41	22,9	22,9	67,0
	>51	59	33,0	33,0	100,0
	Total	179	100,0	100,0	

Q23_Geoparks

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Yes	47	26,3	26,4	26,4
	No	131	73,2	73,6	100,0
	Total	178	99,4	100,0	
Missing	System	1	,6		
Total		179	100,0		

 $Q2_Gender$

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	M	86	48,0	48,0	48,0
	F	93	52,0	52,0	100,0

Q30.1_Skills

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	No	10	5,6	5,6	5,6
	Just	76	42,5	42,7	48,3
	Fairly	92	51,4	51,7	100,0
	Total	178	99,4	100,0	
Missing	System	1	,6		
Total		179	100,0		

Q31_training

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	95	53,1	53,1	53,1
	2	73	40,8	40,8	93,9
	3	11	6,1	6,1	100,0
	Total	179	100,0	100,0	

Q33_Appreciation

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	80	44,7	44,7	44,7
	2	73	40,8	40,8	85,5
	3	26	14,5	14,5	100,0
	Total	179	100,0	100,0	

Q36.1_implications_Society

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	10	5,6	5,6	5,6
	2	16	8,9	8,9	14,5
	3	153	85,5	85,5	100,0
	Total	179	100,0	100,0	

Q37.10_Controversy

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	114	63,7	63,7	63,7
	2	47	26,3	26,3	89,9
	3	18	10,1	10,1	100,0
	Total	179	100,0	100,0	

Q37.11_Misrepresentations

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	46	25,7	25,7	25,7
	2	78	43,6	43,6	69,3
	3	55	30,7	30,7	100,0
	Total	179	100,0	100,0	

Q37.1_Lack_Time

2					
					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	32	17,9	17,9	17,9
	2	98	54,7	54,7	72,6
	3	49	27,4	27,4	100,0
	Total	179	100,0	100,0	

Q37.2_Lack_Support

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	23	12,8	12,8	12,8
	2	72	40,2	40,2	53,1
	3	84	46,9	46,9	100,0
	Total	179	100,0	100,0	

'					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Disagree	113	63,1	63,1	63,1
	Agree	53	29,6	29,6	92,7
	3	13	7,3	7,3	100,0
	Total	179	100,0	100,0	

Q37.4_Lack_Training

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	78	43,6	43,6	43,6
	2	76	42,5	42,5	86,0
	3	25	14,0	14,0	100,0
	Total	179	100,0	100,0	

Q37.5Lack_interest

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	64	35,8	35,8	35,8
	2	91	50,8	50,8	86,6
	3	24	13,4	13,4	100,0
	Total	179	100,0	100,0	

Q37.6_Lack_Knowledge

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	70	39,1	39,1	39,1
	2	78	43,6	43,6	82,7
	3	31	17,3	17,3	100,0
	Total	179	100,0	100,0	

Q37.7_Negative_Opinion

				Cumulative
	Frequency	Percent	Valid Percent	Percent
Valid 1	102	57,0	57,0	57,0

2	52	29,1	29,1	86,0
3	25	14,0	14,0	100,0
Total	179	100,0	100,0	

Q37.8_Pouco_Rigor

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	152	84,9	84,9	84,9
	2	22	12,3	12,3	97,2
	3	5	2,8	2,8	100,0
	Total	179	100,0	100,0	

Q37.9_Topic_Complexity

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	115	64,2	64,2	64,2
	2	53	29,6	29,6	93,9
	3	11	6,1	6,1	100,0
	Total	179	100,0	100,0	

Q45_Number_Activities

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	72	40,2	40,2	40,2
	2	85	47,5	47,5	87,7
	3	22	12,3	12,3	100,0
	Total	179	100,0	100,0	

Q46_SciCom_Experience

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	1	43	24,0	24,0	24,0
	2	88	49,2	49,2	73,2
	3	48	26,8	26,8	100,0
	Total	179	100,0	100,0	

Q5_Expertise

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Geological and Energy	36	20,1	23,1	23,1
	Resources				
	Internal Geodynamics,	34	19,0	21,8	44,9
	Geophysics, Petrology				
	and Geochemistry				
	External Geodynamics	25	14,0	16,0	60,9
	and Palaeontology				
	Geoconservation and	13	7,3	8,3	69,2
	Geotourism				
	History and Education	28	15,6	17,9	87,2
	Environment,	20	11,2	12,8	100,0
	Environmental Geology				
	and Engineering				
	Geology				
	Total	156	87,2	100,0	
Missing	System	23	12,8		
Total		179	100,0		

Q7_Professional_category

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	PostGradStudent	20	11,2	11,8	11,8
	Techinician	50	27,9	29,6	41,4
	Researcher	66	36,9	39,1	80,5
	Teacher	33	18,4	19,5	100,0
	Total	169	94,4	100,0	
Missing	System	10	5,6		
Total		179	100,0		

Q9_Work_Experience

					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	<5	38	21,2	21,2	21,2

5-10	17	9,5	9,5	30,7
10-20	45	25,1	25,1	55,9
>20	79	44,1	44,1	100,0
Total	179	100,0	100,0	

NOMREG Q12_Activities (BASE=LAST ORDER=ASCENDING) BY Q9_Work_Experience Q33_Appreciation

Q37.2_Lack_Support Q46_SciCom_Experience Q5_Expertise

/CRITERIA CIN(95) DELTA($\overline{0}$) MXITER(100) MXSTEP(5) CHKSEP(20) LCONVERGE(0) PCONVERGE(0.000001)

SINGULAR (0.0000001)

/MODEL

/STEPWISE=PIN(.05) POUT(0.1) MINEFFECT(0) RULE(SINGLE) ENTRYMETHOD(LR) REMOVALMETHOD(LR)

/INTERCEPT=INCLUDE

/PRINT=CLASSTABLE FIT PARAMETER SUMMARY LRT CPS MFI.

Nominal Regression

Missing Value

Handling

Definition of Missing

User-defined missing

values are treated as
missing.

Cases Used

Statistics are based on
all cases with valid data
for all variables in the
model.

Syntax		NOMREG Q12_Activities (BASE=LAST ORDER=ASCENDING) BY Q9_Work_Experience Q33_Appreciation
		Q37.2_Lack_Support Q46_SciCom_Experien ce Q5_Expertise /CRITERIA CIN(95) DELTA(0) MXITER(100) MXSTEP(5) CHKSEP(20) LCONVERGE(0) PCONVERGE(0.000000 1)
		SINGULAR(0.0000000 1)
		/MODEL
		/STEPWISE=PIN(.05) POUT(0.1) MINEFFECT(0) RULE(SINGLE) ENTRYMETHOD(LR) REMOVALMETHOD(LR)
		/INTERCEPT=INCLU DE
		/PRINT=CLASSTABL E FIT PARAMETER SUMMARY LRT CPS MFI.
Resources	Processor Time	00:00:00,03

Elapsed Time

00:00:00,03

Case Processing Summary

Case Processing Summa	.,		Marginal
		N	Percentage
Q12_Activities	no_activities	18	11,5%
	one_to_three	55	35,3%
	four_or_more	83	53,2%
Q9_Work_Experience	<5	29	18,6%
	5-10	13	8,3%
	10-20	39	25,0%
	>20	75	48,1%
Q33_Appreciation	1	67	42,9%
	2	66	42,3%
	3	23	14,7%
Q37.2_Lack_Support	1	21	13,5%
	2	64	41,0%
	3	71	45,5%
Q46_SciCom_Experien	1	37	23,7%
ce	2	78	50,0%
	3	41	26,3%
Q5_Expertise	Geological and Energy	36	23,1%
	Resources		
	Internal Geodynamics,	34	21,8%
	Geophysics, Petrology		
	and Geochemistry		
	External Geodynamics	25	16,0%
	and Palaeontology		
	Geoconservation and	13	8,3%
	Geotourism		
	Geoconservation and	28	17,9%
	Geotourism		
	Environment,	20	12,8%
	Environmental Geology		
	and Engineering		
	Geology		
Valid		156	100,0%
Missing		23	
Total		179	
Subpopulation		129 ^a	

a. The dependent variable has only one value observed in $117\ (90,7\%)$ subpopulations.

Model Fitting Information

8	Model Fitting			
	Criteria	Likelihood	Ratio T	ests
	-2 Log			
Model	Likelihood	Chi-Square	df	Sig.
Intercept Only	276,948			
Final	166,127	110,821	28	,000

Goodness-of-Fit

	Chi-Square	df	Sig.
Pearson	167,711	228	,999
Deviance	148,576	228	1,000

Pseudo R-Square

Cox and Snell	,509
Nagelkerke	,597
McFadden	,373

Likelihood Ratio Tests

	Model Fitting			
	Criteria	Likelihood	Ratio T	ests
	-2 Log			
	Likelihood of			
	Reduced			
Effect	Model	Chi-Square	df	Sig.
Intercept	166,127 ^a	,000	0	ē
Q9_Work_Experience	191,617	25,490	6	,000
Q33_Appreciation	186,938	20,812	4	,000
Q37.2_Lack_Support	177,631	11,504	4	,021
Q46_SciCom_Experien	199,849	33,722	4	,000
ce				
Q5_Expertise	189,771	23,644	10	,009

The chi-square statistic is the difference in -2 log-likelihoods between the final model and a reduced model. The reduced model is formed by omitting an effect from the final model. The null hypothesis is that all parameters of that effect are 0.

a. This reduced model is equivalent to the final model because omitting the effect does not increase the degrees of freedom.

Parameter Estimates

<u>1 aramete</u>	T Estimates							95% Con Interv Exp	al for
			Std.				•	Lower	Upper
Q12_Act	ivities ^a	В	Error	Wald	df	Sig.	Exp(B)	Bound	Bound
•	Intercept	,195	1,435	,018	1	,892	1 /		
ities	[Q9_Work_Ex perience=1]	1,629	1,220	1,782	1	,182	5,097	,467	55,686
	[Q9_Work_Ex perience=2]	4,423	1,704	6,736	1	,009	83,377	2,953	2354,04 5
	[Q9_Work_Ex perience=3]	-,122	1,107	,012	1	,912	,885	,101	7,750
	[Q9_Work_Ex perience=4]	$0_{\rm p}$	٠	•	0		•		
	[Q33_Apprecia tion=1]	-5,39 5	1,743	9,583	1	,002	,005	,000	,138
	[Q33_Apprecia tion=2]	-2,00 6	,987	4,133	1	,042	,135	,019	,930
	[Q33_Apprecia tion=3]	O_p			0		•		
	[Q37.2_Lack_ Support=1]	1,760	1,234	2,036	1	,154	5,812	,518	65,223
	[Q37.2_Lack_ Support=2]	-,323	,868	,139	1	,710	,724	,132	3,968
	[Q37.2_Lack_ Support=3]	$0_{\rm p}$			0			•	•
	[Q46_SciCom_ Experience=1]	2,886	1,219	5,604	1	,018	17,919	1,643	195,403
	[Q46_SciCom_ Experience=2]	1,037	1,033	1,009	1	,315	2,822	,373	21,367
	[Q46_SciCom_ Experience=3]	$0_{\rm p}$	٠	•	0				

-	- - [05 E	4 40	1 005	5 461	1	010	012	000	400
	[Q5_Expertise =1]	-4,42 9	1,895	5,461	1	,019	,012	,000	,489
	[Q5_Expertise	_	1,191	1.758	1	,185	,206	,020	2,128
	=2]	0	1,171	1,.00	-	,100	,_00	,020	_,1_0
	[Q5_Expertise	-21,7	9804,6	,000	1	,998	3,741E	,000	c •
	=3]	07	14				-10		
	[Q5_Expertise	-20,6	,000		1		1,121E	1,121E-	1,121E-
	=4]	09					-9	9	9
	[Q5_Expertise	,084	1,113	,006	1	,940	1,088	,123	9,640
	=5]	oh			0				
	[Q5_Expertise =6]	$0_{\rm p}$	•	•	0	•	•	•	•
one_to_t	Intercept	-2,66	1,143	5,423	1	,020			
hree		1							
	[Q9_Work_Ex	•	,679	2,502	1	,114	,342	,090	1,293
	perience=1]	4							
	[Q9_Work_Ex perience=2]	3,731	1,283	8,457	1	,004	41,716	3,375	515,598
	[Q9_Work_Ex	,069	,565	,015	1	,902	1,072	,354	3,241
	perience=3]								
	[Q9_Work_Ex	0_{p}			0				
	perience=4]								
	[Q33_Apprecia	-,301	,811	,137	1	,711	,740	,151	3,629
	tion=1]	200	707	121	1	710	1 224	200	C 2C0
	[Q33_Apprecia tion=2]	,288	,191	,131	1	,718	1,334	,280	6,368
	[Q33_Apprecia	O_p			0				
	tion=3]	O	•	•	U	•	•	•	•
	[Q37.2_Lack_	-1,56	,869	3,257	1	,071	,208	,038	1,144
	Support=1]	8							
	[Q37.2_Lack_	-,417	,463	,812	1	,367	,659	,266	1,633
	Support=2]								
	[Q37.2_Lack_	$0_{\rm p}$	•	•	0	•	•		•
	Support=3]	• • • •				000	4-0-0	0 = 0 -	• • • • • • •
	[Q46_SciCom_	3,826	,791	23,37	1	,000	45,878	9,726	216,398
	Experience=1]	1 017	622	2 522	1	002	6 1 5 1	1 010	20.015
	[Q46_SciCom_ Experience=2]	1,61/	,022	8,532	1	,003	6,151	1,818	20,815
	[Q46_SciCom_	$0_{\rm p}$			0				
	Experience=3]	U	•	•	U	•	•	•	•
	_	,275	,855	,104	1	,747	1,317	,247	7,036
	_=1]	•	•	•		•	•	•	,
	=								

[Q5_Expertise =2]	,441	,819	,290	1	,590	1,554	,312	7,735
[Q5_Expertise =3]	,750	,872	,739	1	,390	2,117	,383	11,696
[Q5_Expertise =4]	,997	1,045	,910	1	,340	2,711	,349	21,040
[Q5_Expertise =5]	1,675	,883	3,595	1	,058	5,338	,945	30,149
[Q5_Expertise =6]	0_{p}	•	•	0	•	•		

a. The reference category is: four_or_more.

Classification

		Pred	licted	
				Percent
Observed	no_activities	one_to_three	four_or_more	Correct
no_activities	10	4	4	55,6%
one_to_three	2	32	21	58,2%
four_or_more	3	9	71	85,5%
Overall Percentage	9,6%	28,8%	61,5%	72,4%

b. This parameter is set to zero because it is redundant.

c. Floating point overflow occurred while computing this statistic. Its value is therefore set to system missing.

Supplementary Material C
Summary of the results of the demographic and descriptive analysis

Demographics														
	<	< 30	3	80-40	4	40-50	> 50	years old						
Q1. Age	29	0,16201	50	0,27933	41	0,22905	59	0,32961						
	$F\epsilon$	emale	Ì	Male	C	Other								
Q2. Gender	93	0,51955	86	0,48045										
	Вас	helor's	M	aster's		PhD								
Q3. Academic degree	32	0,17877	75	0,41899	72	0,40223								
	Ge	eology	Ge Envir Scien	logy and eology; ronmental aces; Env. acation	Engine	ological eering/Mine gineering	Bi	iology	Mete Ocean	physics; orology; nography; hysics		hy; Aerospace zineering		
Q4. Degree area	125	0,69832	28	0,15642	8	0,04469	8	0,04469	6	0,03352	4	0,02235		
		gical and Resources	Geod Geo Petro	nternal dynamics, ophysics, ology and chemistry	Geody	xternal namics and eontology		ervation and otourism		tory and ucation	Envi Geo	ironment, ronmental ology and ring Geology		Other
Q5. Area of expertise	36	0,20112	34	0,18994	25	0,13966	13	0,07263	28	0,1676	20	0,10615	23	0,12291
	Tec	hnician	Higher	r education pr r education ofessor		Researcher searcher	seconda	entary and ry education acher	_	raduation udent	Science	Other communicator		Other
Q7. Professional category	50	0,27933	36	0,20112	30	0,1676	33	0,18436	20	0,11173	7	0,03911	3	0,01676

Descriptive analysis

Frequency						
	1	Vone	1 - 3 a	activities	More tha	ın 4 activities
Q12. How many science communication activities have you carried out in the last year?	21	0,117318	60	0,335196	98	0,547486
Institution attitude						
	1	High	$M\epsilon$	edium		Low
Q33. To what degree does your institution value communication activities?	80	0,446927	73	0,407821	26	0,145251
Perception about geoscientific area						
	Di	sagree		agree nor agree	A	Agree
Q36.1 Has your work implications for society and/or policy makers?	10	0,055866	16	0,089385	153	0,854749
Q36.2 do scientists have a moral duty to engage with the non-expert public about the social and ethical implications of their work?	5	0,027933	13	0,072626	161	0,899441
Q36.3 Is your work interesting to non-specialist audiences?	15	0,083799	23	0,128492	141	0,787709
Q36.4 Is your work too specialized to make sense to non-specialist audiences?	108	0,603352	29	0,162011	42	0,234637
Obstacles to science communication						
What obstacles do you find in the science communication?	Di	sagree	Modera	itely agree	Stron	igly agree
Q37.1 lack of time	32	0,178771	98	0,547486	49	0,273743
Q37.2 lack of financial support	23	0,128492	72	0,402235	84	0,469274
Q37.3 discomfort in communicating with lay audiences	113	0,631285	53	0,296089	13	0,072626
Q37.4 lack of preparation/training	78	0,435754	76	0,424581	25	0,139665
Q37.5 lack of public interest	64	0,357542	91	0,50838	24	0,134078
Q37.6 lack of public knowledge	70	0,391061	78	0,435754	31	0,173184
Q37.7 negative opinion by peers	102	0,569832	52	0,290503	25	0,139665

Q37.8 these activities make science less rigorous	152	0,849162	22	0,122905	5	0,027933		
Q37.9 the complexity of my scientific field	115	0,642458	53	0,296089	11	0,061453		
Q37.10 fear of creating misunderstandings and generating controversy	114	0,636872	47	0,26257	18	0,100559		
Q37.11 misrepresentation of scientific content by journalists	46	0,256983	78	0,435754	55	0,307263		
Self-perceived competence								
	Not _I	prepared	Moderat	tely prepared		/very well repared		
Q30.1 Do you fell with the necessary skills to communicate science?	10	0,05618	76	0,426966	92	0,516854		
Q30.2 Do you fell prepared to communicate about the social and ethical implications of science?	44	0,247191	73	0,410112	61	0,342697		
Personal satisfaction								
Q32. Regarding your entire professional activity, how important is it for you to find time to engage with non-specialist audiences?		ng/not very portant	Equall _?	ly important	Quite/ve	ery important		
	1	5 0,083799	42	0,234637	122	0,681564		
Q36.7 In your opinion, engaging non-specialist audiences in science is personally rewarding?	Di	isagree		r agree nor isagree	F	Agree		
	1	1 0,061453	14	0,078212	154	0,860335		
Q45. What do you think about the number of activities you do annually?	Re	educed	Fai	ir/Good	Very goo	od/Excessive		
	7	2 0,402235	85	0,47486	22	0,123		
Q46. How do you rate your communicator experience?	Unsa	ıtisfactory	Sati	isfactory	Very s	satisfactory		
	4.	3 0,240223	88	0,49162	48	0,268156		
Contact with journalists								
	(Often Usually		R	Rarely	Λ	Vever	
Q13.1 Journalists	5	0,027933	16	0,089385	71	0,396648	87	0,486034
Q13.2 Science journalists	3	0,01676	7	0,039106	82	0,458101	87	0,486034

Q1 Q2 Q3 > 50 Male PhD	Q4 Geology	Q5 Geocons & Geot	Q12 1 - 3	Q13.1 Never	Q13.2 Rarely	Q30.1 Well prepared	Q30.2 Mod prepared	Q32 Quite important	Q33 High	Q36.1 Strongly agree	Q36.2 Strongly agree	Q36.3 Moderately agree	Q36.4 Moderately disagree	Q36.7 Strongly agree	Q37.1 Str agree	Q37.2 Mod agree	Q37.3 Disagree	Q37.4 Disagree	Q37.5 Mod agree	Q37.6 Mod agree	Q37.7 Disagree	Q37.8 Disagree	Q37.9 Disagree		4 0)45 duced Fe	Q46 ew satisf
> 50 Male PhD	Geology	Environ & Eng Geology	> 10	Rarely	Rarely	Well prepared	Mod prepared	Quite important	High	Moderately agree	Strongly agree	Moderately agree	Moderately disagree	Moderately agree	Disagree	Mod agree		Mod agree	Disagree	Disagree	Mod agree	Disagree	Disagree	Disagree 1	Mod agree G	ood Ve	ery satisf
41-50 Female PhD < 30 Male Master's	Geology Bio & Geol; Environ	Environ & Eng Geology Geo Energ Resources	None 1 - 3	Rarely Rarely	Rarely Never	Very well prep Mod prepared	Well prepared Well prepared	Quite important Equ important	Medium High	Moderately agree Strongly agree	Strongly agree Moderately agree	Moderately agree Moderately agree	N agree nor disagree Moderately disagree	Moderately agree Moderately agree	Mod agree Mod agree			Mod agree Mod agree		Mod agree Disagree	Str agree Disagree	Disagree Disagree	Disagree Disagree		Mod agree Very Disagree Red		ery satisf Unsatisf
> 50 Female PhD > 50 Female Master's	Geology Bio & Geol: Environ	Hist & Educ Hist & Educ	None > 10	Never Never	Never Never	Mod prepared Well prepared	Very well prep Well prepared	Equ important Very important	Medium High	Moderately agree Moderately disagree	Moderately agree Moderately agree	Moderately agree Moderately agree	Strongly disagree Strongly disagree	Moderately agree Strongly agree	Disagree Mod agree	Disagree Str agree	Disagree Disagree	Disagree Disagree	Disagree Mod agree	Disagree Mod agree	Disagree Disagree	Disagree Disagree	Disagree Disagree		•		atisfactory atisfactory
< 30 Female Master's	Geol Min Eng	Geo Energ Resources	> 10	Rarely	Never	Mod prepared	Mod prepared	Very important	High	Moderately agree	Strongly agree	Strongly agree	Moderately disagree	Strongly agree	Mod agree	Str agree	Disagree	Disagree	Mod agree	Disagree	Disagree	Disagree	Disagree	Disagree	Disagree Very	good Sa	atisfactory
30-40 Male PhD 30-40 Male Master's	Geology Geology	Ext Geod & Palaeont Geo Energ Resources	> 10 > 10	Usually Often	Rarely Rarely	Very well prep Very well prep	Very well prep Very well prep	Very important Very important	High High	Strongly agree Strongly agree	Strongly agree Strongly agree	Strongly agree Strongly agree	Strongly disagree Moderately disagree	Strongly agree Strongly agree	Mod agree Mod agree		Mod agree Disagree			Mod agree Mod agree		Disagree Disagree	Disagree Disagree	Disagree M Disagree M			ery satisf ery satisf
30-40 Female Master's	Geology	Geocons & Geot	> 10	Never	Never	Well prepared	Well prepared	Very important	High	Moderately agree	Moderately agree	N agree nor disagree	N agree nor disagree	Strongly agree	Mod agree	Mod agree	Mod agree	Mod agree	Mod agree	Mod agree	Mod agree	Disagree	Disagree	Mod agree 1	Mod agree F	air Ve	ery satisf
> 50 Female PhD > 50 Male PhD	Geology Geology	Int Geod, Geoph, Petrol Geoch Int Geod, Geoph, Petrol Geoch		Never Rarely	Rarely Rarely	Mod prepared Mod prepared	Not prepared Well prepared	Very important Quite important	Medium Medium	N agree nor disagree N agree nor disagree	Strongly agree Moderately agree	Strongly agree Moderately disagree	Moderately disagree Moderately disagree	Strongly agree Strongly agree	Str agree Mod agree		Mod agree Disagree	Disagree		Mod agree Disagree		Disagree Disagree	Mod agree Mod agree	Disagree Disagree	•		atisfactory atisfactory
41-50 Male Bachelor's 30-40 Female Bachelor's	Geology Geology	Geocons & Geot	> 10 4 - 9	Often Never	Usually Never	Well prepared Not prepared	Mod prepared Mod prepared	Very important Quite important	High High	Strongly agree Strongly agree	Strongly agree Strongly agree	Moderately agree Moderately agree	Strongly disagree N agree nor disagree	Strongly agree Moderately agree	Mod agree Mod agree		Disagree Str agree	Mod agree Str agree	Mod agree Str agree	Mod agree Str agree		Disagree Disagree	Disagree Disagree	Disagree Mod agree			atisfactory ew satisf
> 50 Male PhD	Geology	Ext Geod & Palaeont	4 - 9	Rarely	Rarely	Well prepared	Mod prepared	Very important	Medium	Moderately agree	Strongly agree	Strongly agree	Moderately disagree	Moderately agree	Disagree	Disagree	Disagree	Mod agree	Disagree	Disagree	Mod agree	Disagree	Disagree	Disagree 1	Mod agree G	ood Ve	ery satisf
> 50 Female PhD < 30 Male Bachelor's	Biology Bio & Geol; Environ	Ext Geod & Palaeont	1 - 3 > 10	Rarely Rarely	Rarely Never	Well prepared Well prepared	Well prepared Not prepared	Very important Very important	High High	Moderately agree Moderately agree	Strongly agree N agree nor disagree	Strongly agree Moderately agree	Strongly disagree N agree nor disagree	Strongly agree Moderately agree	Mod agree Mod agree		Disagree Mod agree					Disagree Disagree	Disagree Str agree	Disagree Str agree 1			atisfactory atisfactory
41-50 Female Master's	Geology	Geo Energ Resources	1 - 3		Never	Mod prepared	Not prepared	Quite important	Medium	Strongly disagree	Moderately agree	Moderately disagree	Strongly disagree	Strongly disagree	Mod agree	Mod agree	Mod agree	Disagree	Mod agree	Disagree	Disagree	Disagree	Disagree				ew satisf
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