

Survey on Research Quality Model

We are a group of scholars at Karolinska Institute, Stockholm University and Stockholm School of Economics, who have developed a model intended for evaluating research quality. The model was published in the article "Evaluating research: A Multidisciplinary Approach to Assessing Research Practice and Quality", published in *Research Policy*, 2016; 45(3), pp. 593-603.

[<http://www.sciencedirect.com/science/article/pii/S0048733315001845>] As a step to further developing the model, we would like to survey how other scholars, active in various scientific fields, would be able to use the model to judge quality in their own research. We would be very grateful if you could fill out this brief questionnaire, to help us empirically validate our model. It will take 10-15 minutes of your time. Your answers will be treated confidentially and anonymously, and only be reported at an aggregate level, where no single respondent can be identified.

Background information

Q1 Your research field? (please define):

Q2 Current institution/university?

Q3 Current department?

Q4 Age?

Q5 Gender?

- Female (1)
- Male (2)
- Other (3)

Q6 Highest academic degree attained?

- B.Sc. (1)
- M.Sc./Magister (2)
- Lic. (3)
- Ph.D. (4)
- Other (5) _____

Q7 Institution/University granting the highest degree and year:

University (1)

Year (2)

Q8 The scientific area your highest academic degree is in (e.g., history, medicine, management etc.):

Q9 Current position:

- Lecturer (1)
- Senior Lecturer (2)
- Assistant Professor (3)
- Associate Professor/Docent (4)
- Professor (5)
- Other (6) _____

Q10 Possible current academic leadership position? (Dean, Director of studies, Head of Department, etc.)

Q11 Do you have tenure/a permanent position?

- Yes (1)
- No (2)

Q12 In which country have you mainly been active as a researcher?

13 In which countries have you also been doing research actively for at least 3 months?

Q14 Approximately, how many Ph.D. or Licentiate dissertations have you been involved in as a member of the grading committee and /or as an opponent?

- 0 (1)
- 1-3 (2)
- 4-6 (3)
- 7-9 (4)
- 10-20 (5)
- >20 (6)

The Model Our model for research evaluation is based on 32 concepts (please refer to the article for more details) that each can be more or less applicable to a certain research field. We would like you, as an expert in your field, to indicate the extent to which these concepts are important when you evaluate research in your field on the scale 'Not at all important', 'Somewhat important', 'Moderately important', 'Very important', 'Of crucial importance'.

Q15 To evaluate the quality of a dissertation in your field, how important are the following concepts?:

	Not at all important (1)	Somewhat important (2)	Moderately important (3)	Very important (4)	Of crucial importance (5)
1. Credible (The research is Coherent, Consistent, Rigorous and Transparent) (1)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Rigorous (The research is Contextual, Internally Valid and Reliable) (2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. Consistent (New Knowledge is logically linked to Existing Knowledge and is in accordance with the Scientific Method and Question at Hand). (3)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

<p>4. Coherent (Adequate consideration is given to Existing Knowledge in the chosen Context). (4)</p>	○	○	○	○	○
<p>5. Transparent (Relevant New Knowledge in the reporting of research results is included and the process is described in relation to the Question at Hand, Scientific Method and Existing Knowledge). (5)</p>	○	○	○	○	○
<p>6. Internally Valid (A correct Scientific Method (incl. research design) is used in relation to the Question at Hand and Context, and New Knowledge is Provable). (6)</p>	○	○	○	○	○
<p>7. Reliable (The chosen Scientific Method is appropriate for the present Question at Hand and Context, and is documented in a Described Procedure that others could use to reach a similar result in the same Context). (7)</p>	○	○	○	○	○
<p>8. Contextual (Existing Knowledge that is relevant for the Context is used, and is presented</p>	○	○	○	○	○

according to Rules for Description). (8)					
9. Contributory (The research is Original, Relevant and Generalizable). (9)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10. Original (The research has an Original Idea, uses an Original Procedure and produces an Original Result). (10)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11. Relevant (The research has a Relevant Research Idea, Applicable Result and Current Idea). (11)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12. Generalizable (New Knowledge is practically or theoretically useful in Contexts other than the one studied). (12)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13. Original in its Idea (The Question at Hand has not been asked before in the current Context or is interpreted in a novel way). (13)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14. Original in its Procedure (The described Procedure is original in relation to the Question at Hand). (14)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15. Original in its Result (New Knowledge is Provable in relation to Existing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Knowledge). (15)					
16. Relevant Research Idea (The question at Hand is relevant for the current Target Group). (16)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
17. Applicable in its Result (New knowledge is Beneficial for the current Target Group). (17)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18. Current in its Idea (The Question at Hand is in accordance with the current Context). (18)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19. Communicable (The research is Consumable, Accessible and Searchable). (19)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
20. Consumable (The research is Structured, Understandable and Readable). (20)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21. Accessible (New Knowledge is easily available to the Target Group). (21)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
22. Searchable (The documented New Knowledge is structured according to the Rules for Description and easily found by the Target Group). (22)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
23. Structured (The Research documentation follows the Rules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

for Description). (23)					
24. Understandable (The language in the Research documentation is understandable for the Target Group). (24)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
25. Readable (A Correct language is used in the Research documentation for the Target Group). (25)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
26. Conforming (The research is Aligned with Regulations, Ethical and Sustainable). (26)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
27. Aligned with Regulations (The Research complies with currently applicable legal aspects of the System of Rules). (27)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
28. Ethical (The Research is Morally Justifiable, Open and supports Equal Opportunities). (28)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
29. Sustainable (The Research complies with sustainable development aspects as described in the System of Rules). (29)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30. Morally Justifiable (The Research complies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

with currently applicable ethical standards as described in the System of Rules). (30)					
31. Open (The Research demonstrates Transparency with currently applicable ethical standards as described in the System of Rules). (31)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
32. Considering Equal Opportunities (The Research is consistent with equal treatment according to the System of Rules) (32)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The concepts

Q16 Are any of the 32 concepts above totally unnecessary? If so, which and why?

Q17 Are there any concepts that should be added to the model (please specify in detail below?)

General Comments

Q18 In general, for what purpose(s) do you think this type of model could be useful? (You may tick more than one).

- To evaluate applications for research funding (1)
- To evaluate if dissertations should pass (2)
- To review scientific manuscripts (3)
- To evaluate research of a university (4)
- To compare research quality within a university (5)
- Other (6) _____

Q19 Other comments on the proposed model, on the survey, or more general comments