





## Responsible Research Assessment

Evaluating research quality beyond h-index and JIF with the RESQUE framework (RESearch QUality Evaluation)

Felix Schönbrodt, Anne Gärtner, Daniel Leising

Alp Kaan Aksu, Maximilian Ernst, Maximilian Frank, Nele Freyer, Mario Gollwitzer, Malika Ihle, Jens Lange, Dorothee Mischkowski, Philipp Musfeld, Aaron Peikert, Le Vy Phan, Manfred Schmitt, Anne M. Scheel, Anna-Lena Schubert, Ulf Steinberg

## New assessment criteria: The process

2022



Quality rating scheme for publications





2023



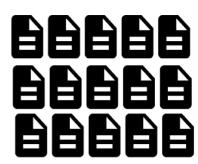
RRA 1 (Principles)



RRA 2 (Implementation)



Empfehlungen zur Bewertung wissenschaftlicher Leistungen bei Berufungsverfahren in der Psychologie



15 commentaries



- ✓ Community-proofed
- ✓ Collaboratively improved with multiple breakout groups focusing on specific indicators (e.g., software, theory development, ...)
- Development backed by DGPs
- √ Ready-to-use templates, adaptable to local needs
- ✓ Efficiency & reduced committee workload by automation

#### **RESQUE Framework:**

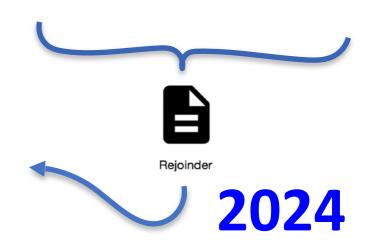
- 4 principles
- 2-phase assessment
- How-tos for hiring committees

#### **Rating schemes:**

- RESQUE-Publication
- RESQUE-Data
- RESQUE-Software

#### Tools:

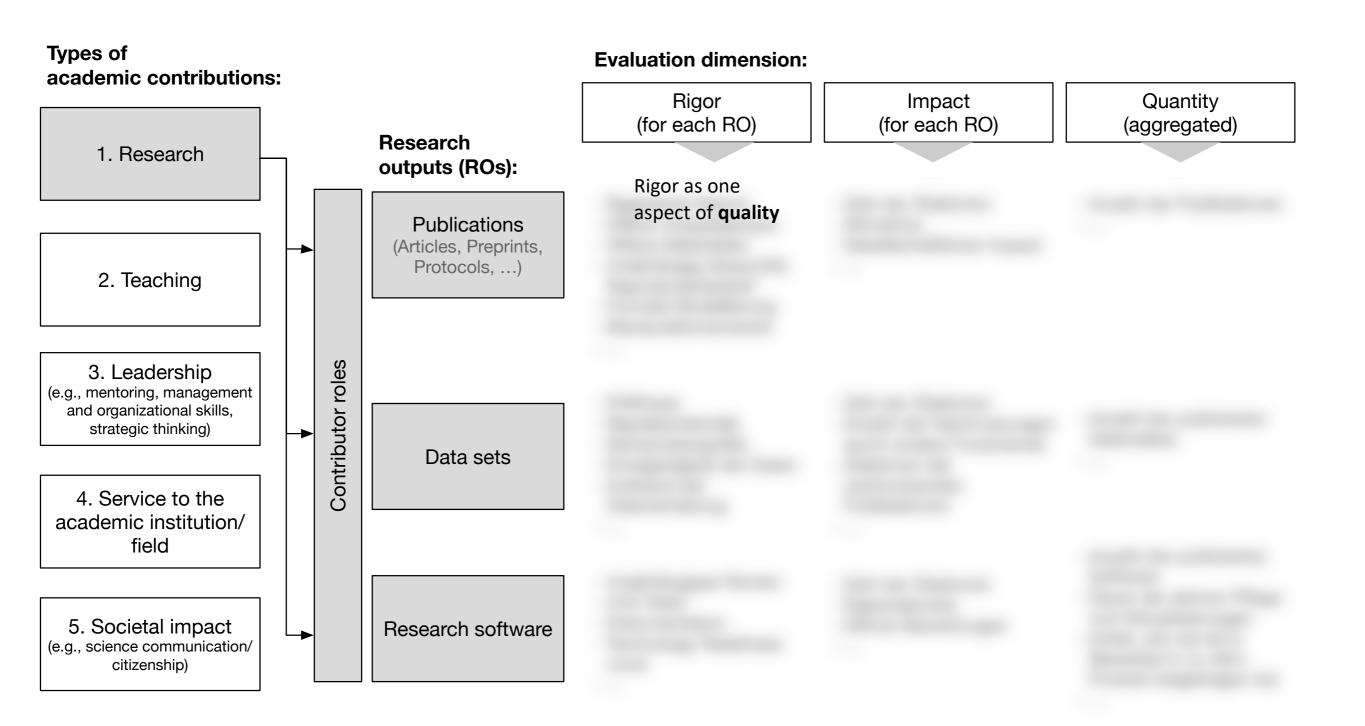
- Interactive web form
- R-scripts for profile visualization



#### **Quality over quantity**

- "Quality" is multidimensional:
  - basic aspects (methodological rigor)
  - elusive and complex aspects (innovation, creativity, ingenuity)
- Rigor as one part of quality can be measured (quite) objectively:
   Whether research has been skillfully executed according to standards of good scientific practice within the field.
- Quality cannot be reduced to rigor!
  - Rigor is not a sufficient condition for high-quality research —
     but it can be seen as a necessary condition for valid knowledge.

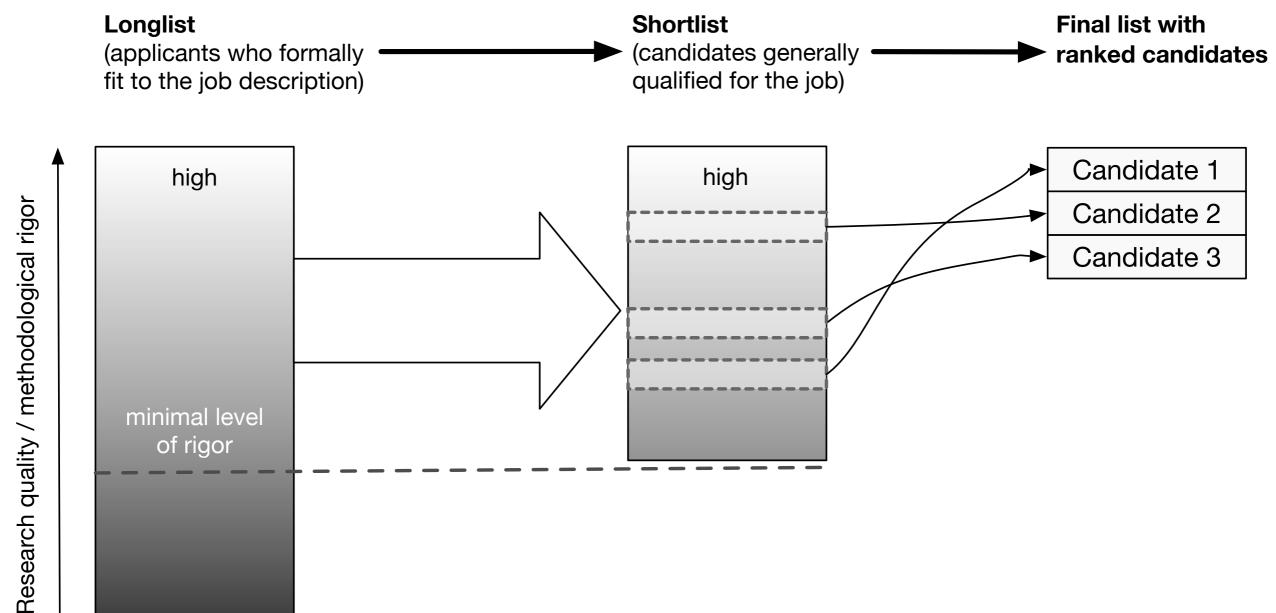
## Research Quality Evaluation Scheme (RESQUE)



### A two-phase hiring process

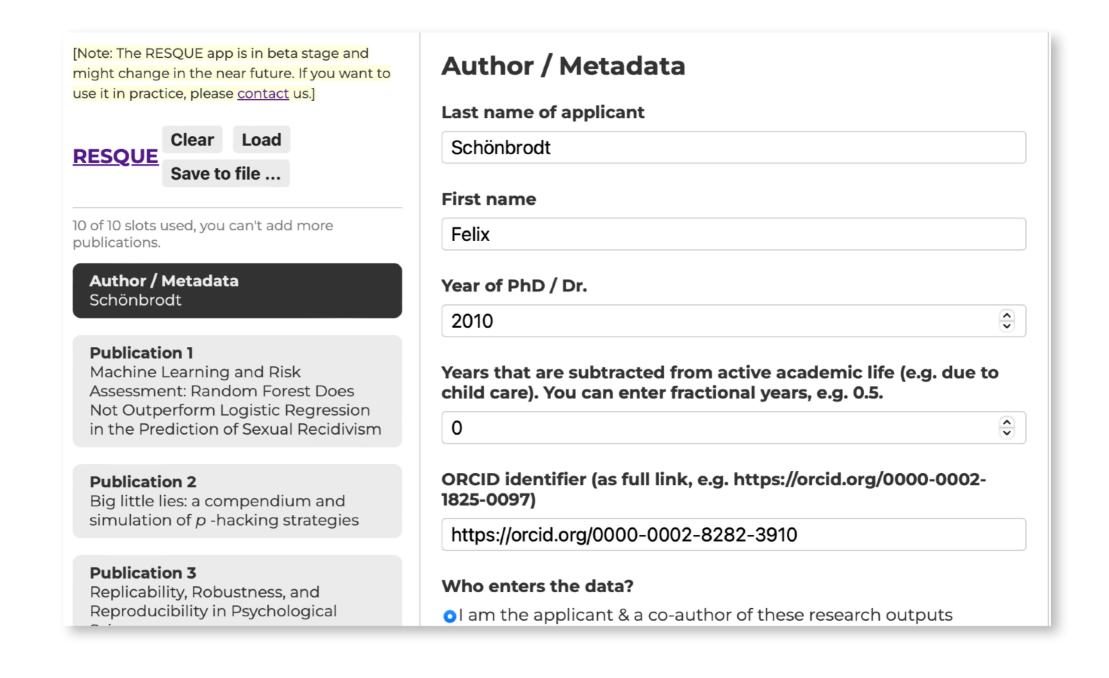
# Phase 1: Negative selection with focus on *efficiency*: algorithm/indicator assisted

# Phase 2: Positive selection with focus on *content*: in-depth qualitative evaluation and peer-review in committee



# Applicants enter their data at:

https://nicebread.github.io/RESQUE/web/



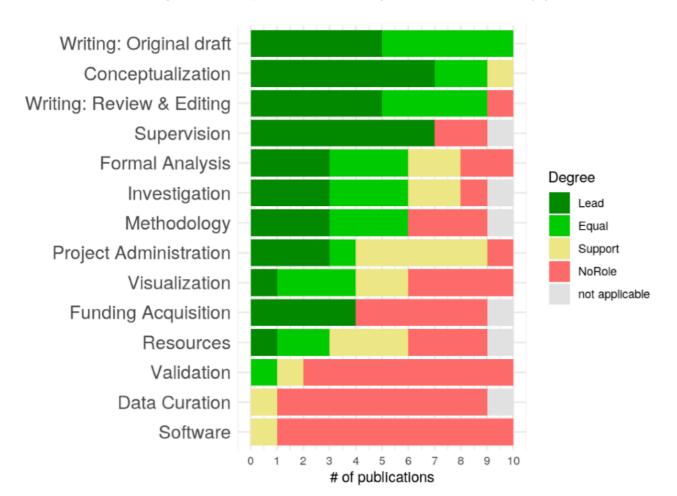
[Note: The RESQUE app is in beta stage and might → Is the raw data available in an institutional repository? change in the near future. If you want to use it in Not applicable [provide explanation] practice, please contact us.] Not available RESQUE Save to file ... Clear Load Yes, parts of data [provide doi or URL] • Yes, entire data [provide doi or URL] 10 of 10 slots used, you can't add more publications. **→ DOI or URL Publication 3** https://www.psycharchives.org/en/item/8b13c82b-1c31-481a-b4be-0d5779 Replicability, Robustness, and Reproducibility in Psychological Science Access level ZKO (open data) **Publication 4** Measuring Implicit Motives with the Picture ZK1 (scientific use file) Story Exercise (PSE): Databases of Expert-Coded German Stories, Pictures, and OZK2 (restricted access) [provide justification] **Updated Picture Norms → FAIR format** ☑The data set has a globally unique, citable and persistent identifier (e.g., **Publication 5** DOI, PURL, ARK) A Series of Meta-Analytic Tests of the Efficacy of Long-Term Psychoanalytic ✓ All variables are comprehensively described in a codebook with a Psychotherapy structured format ▼The data set is stored in a structured, open format (e.g., .csv, .tsv, .tab, .txt, ...) **Publication 6** .json; not .sav, .xlsx, .pdf) Correcting for Bias in Psychology: A Comparison of Meta-Analytic Methods **Open reproducible scripts** Not applicable [provide explanation] **Publication 7** Testing Similarity Effects with Dyadic Not available Response Surface Analysis Yes, parts of scripts [provide doi or URL] Yes, entire scripts [provide doi or URL] **Publication 8** Bayes factor design analysis: Planning for → DOI or URL of the script compelling evidence

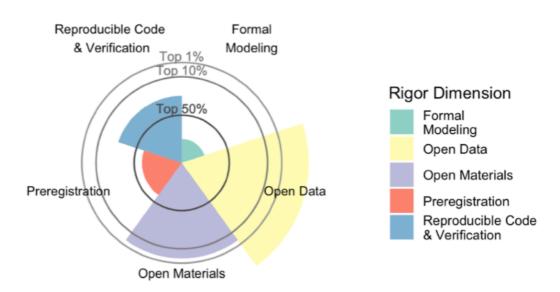
"menu approach": appointment committees select indicators they see as appropriate

# Create a profile for your CV; interactive comparison charts for hiring committees

#### Contributorship profile (CRediT roles)

Based on 10 submitted publications, this is the self-reported contributorship profile:





TITLE	3 YEAR CITATION COUNT	OVERALL CITATION COUNT	POPULARITY	CANDIDATES' CREDIT INVOLVEMENT	CANDIDATES' CREDIT MAIN ROLES
Bayes factor design analysis: Planning for compelling evidence	63	300	Top 0.1%	Very High	Lead: Conceptualization Formal Analysis, Visualization, Writing: Original draft, Writing: Review & Editing Equal: Methodology
+ Replicability, Robustness, and Reproducibility in Psychological Science	105	105	Top 1%	Medium	<b>Equal:</b> Data Curation, Formal Analysis