

de-RSE - The German RSE Chapter

The Research Software Engineering Landscape in Germany

Open Science Days 2019

Heidi Seibold¹ and Stephan Janosch²

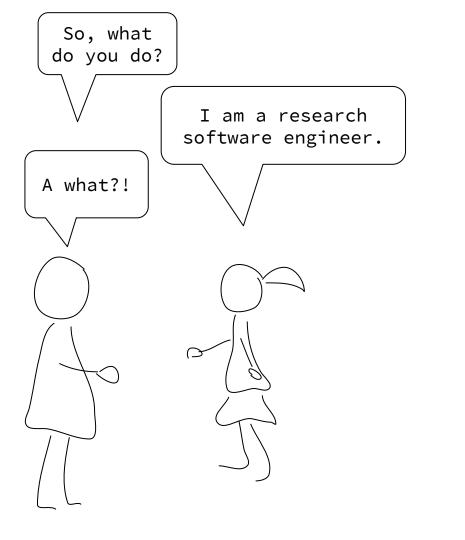
- 1 Institute for Medical Information Processing, Biometry, and Epidemiology, LMU Munich
- 2 Max Planck Institute of Molecular Cell Biology and Genetics, Dresden





Please ask questions!







The Researcher

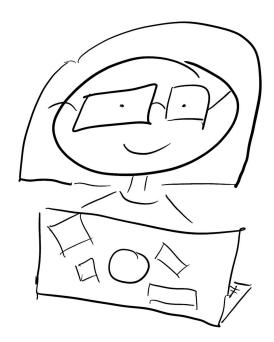
- Needs analysis scripts (or other software skills) for her research
- Learns what she needs





The Geek

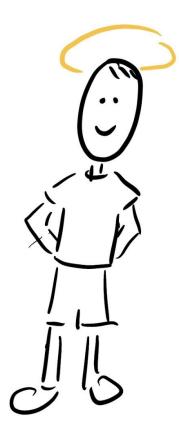
- Writes software as part of her research project
- Would like to code more, but needs to think about her career and write papers





The Go-To Person in case of problems

- Knows how to solve all kinds of computer problems
- Is hired to work on other things but is kind enough to help because he likes it





The Reproducibility Guru

 Learns lots of software tools in order to make his research reproducible





The Software Person

- Is hired to work on software for a research project
- Decides to leave academia because companies seem to value her skills more



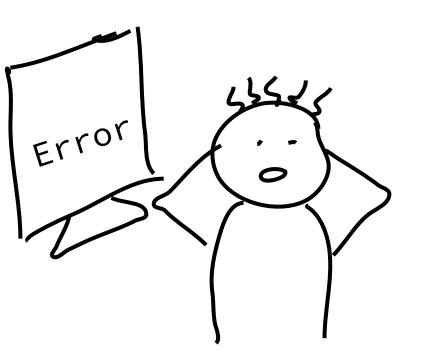


We need people who...

- Develop helpful tools / software
- Help researchers with finding + learning good tools
- Support researchers with (computational) reproducibility
- Support in writing software and teach best practices

;

Research Software Engineers (RSEs)





An awkward situation



RSEs are not getting the support / career / citations they deserve

+

Research needs RSEs

Community initiation

UK: March 2012

Germany: Sep 2016 at RSE16;

Association Nov 2018



About

Programmes and Eve

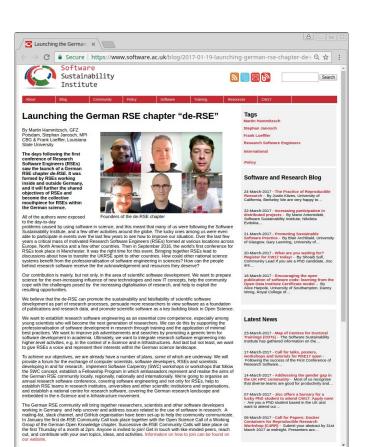
A not-so-brief history of Research Software Engineers

Posted by s.aragon on 17 August 2016 - 2:26pm

By Simon Hettrick, Deputy Director

On a beautifully sunny day in March 2012, a small group met at Queen's College Oxford and challenged a long-standing problem: why is there no career for software developers in academia? They didn't know it at the time, but this meeting led to a nationwide campaign that created a vibrant and rapidly growing community, and established a new role in research: the Research Software Engineer.



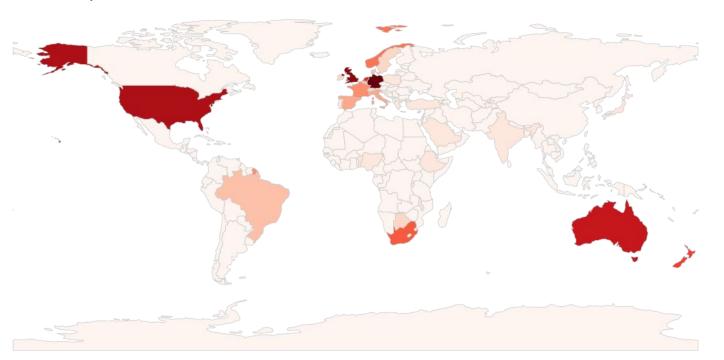


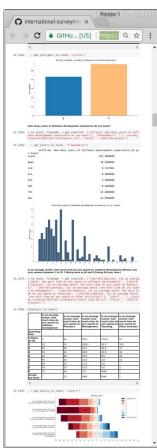




Survey 2018

~ 1000 persons

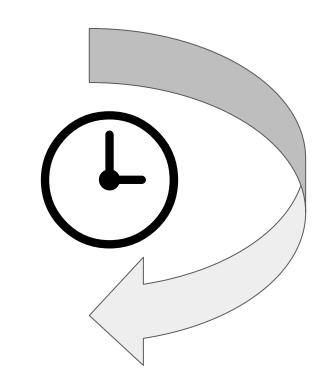


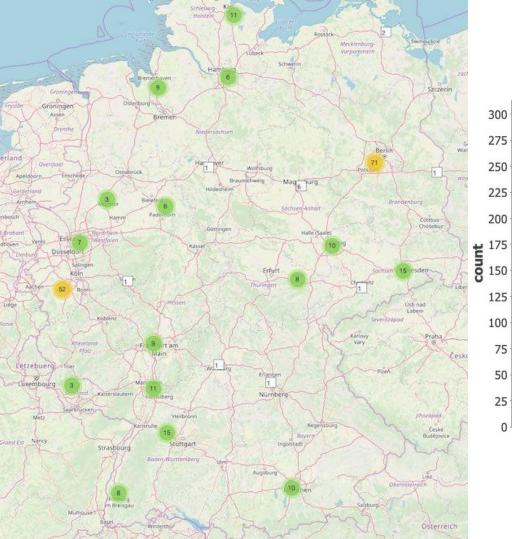




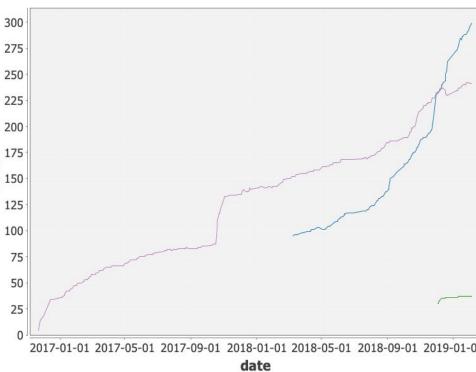
Survey Structure

- Demographics
- Coding
- Employment
- Current contract
- Previous employment
- Collaboration and training
- Publications
- Sustainability and tools
- Job satisfaction
- Network

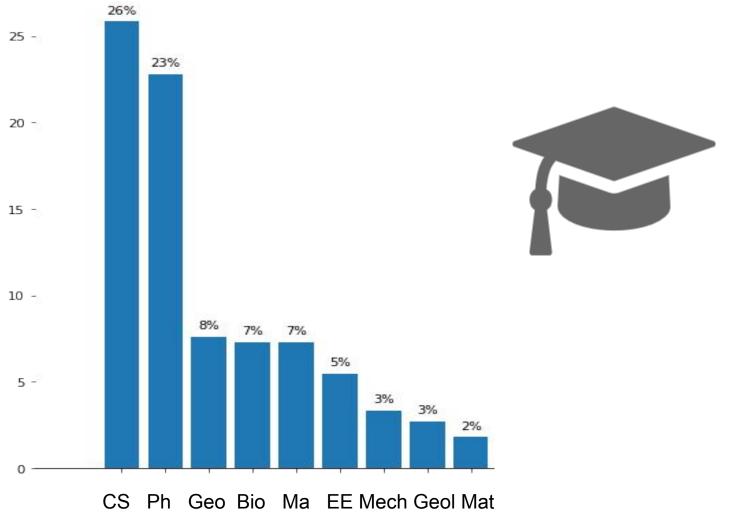




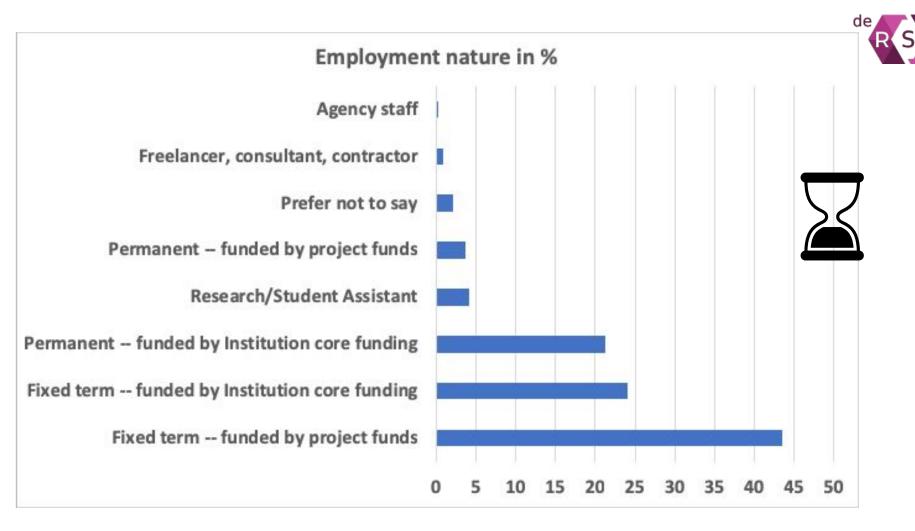




de-rse — RSE_de_follower on Twitter — map entries



de R S E



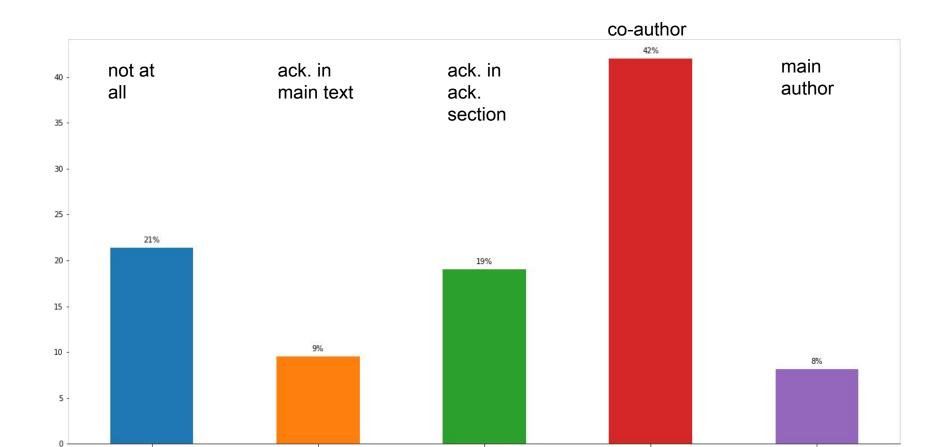


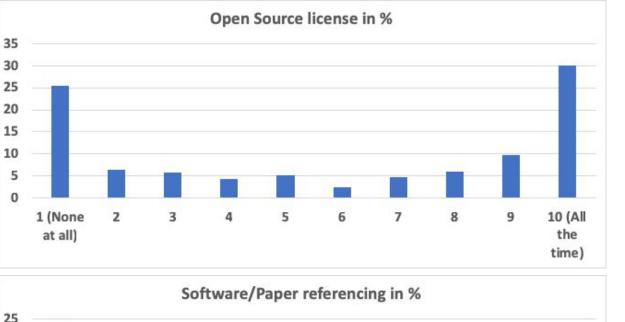
Training



acknowledgment

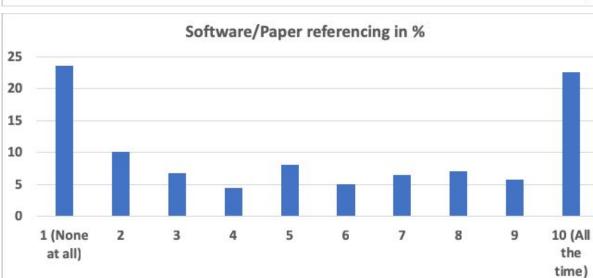






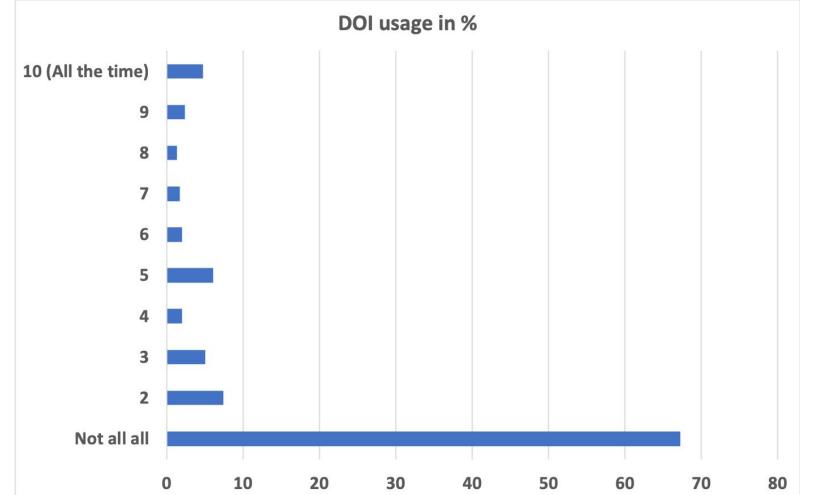




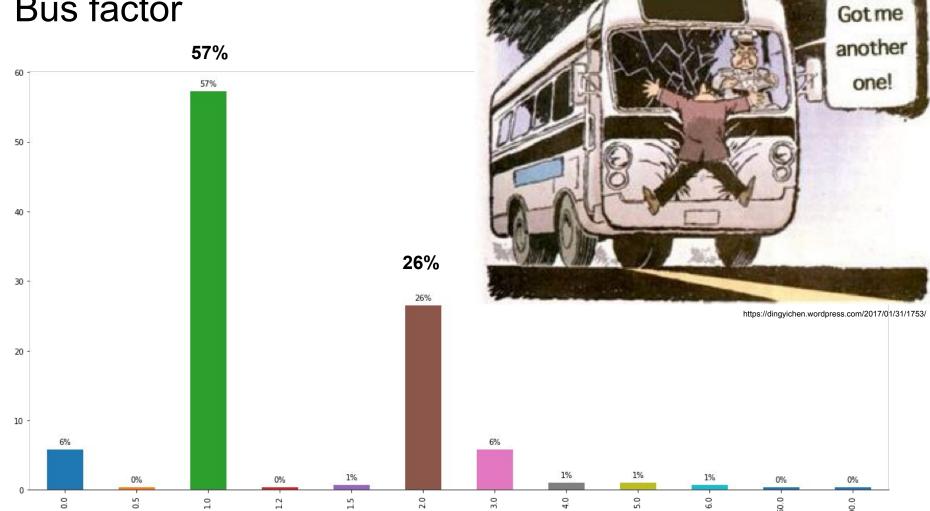






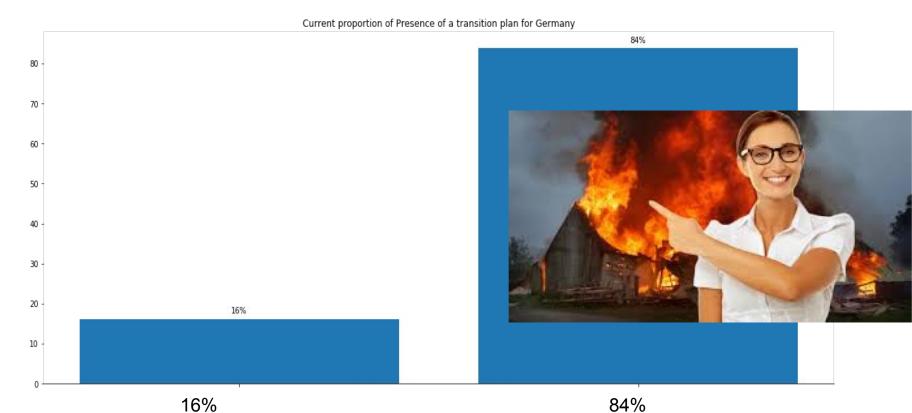


Bus factor





Transition Plan





Summary

- Bad care taking
 - High bus factor and almost no transition plans
- A conference is missing
 - People work alone
- Lack of guidelines
- Lack of best practises
 - Citation
 - Rewards
 - Career
 - Education (e.g. Software Carpentry)
- SW is not only a tool, but also result



Objectives

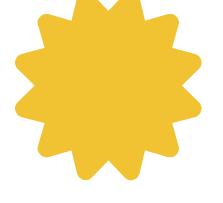








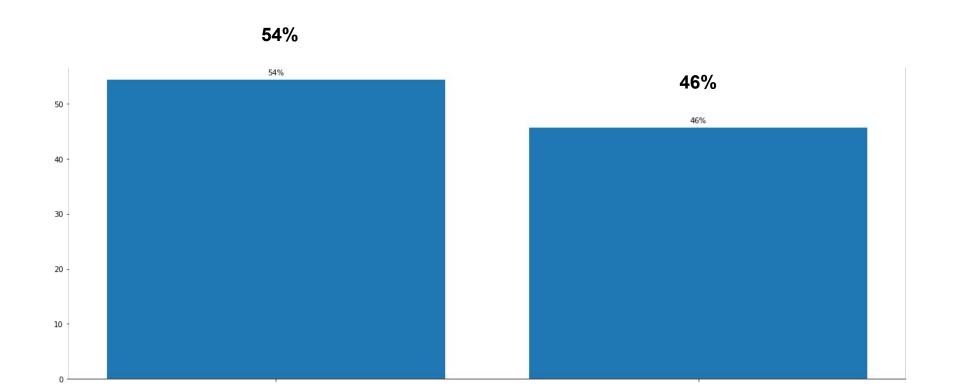








conference participation



Activities





RSE

de-RSE

Software Engineers in Germany

deRSE19 - Conference for Research

Blog

Umfrageverteilung 2018 in Deutschland

Post only available in German

Stephan Janosch, January 29, 2019

Ähnlich wie im letzten Jahr kann auch die Beteiligung an der RSE-Umfrage 2018 grafisch dargestellt werden. Das Clustering summiert die Beteiligungen der einzelnen Institutionen. Die Zahl gibt an, wieviel Antworten von wo zur Studie beigetragen haben





software carpentry

BLOG

Teaching basic lab skills for research computing









Thank you!

Slides:

goo.gl/A15Xpa

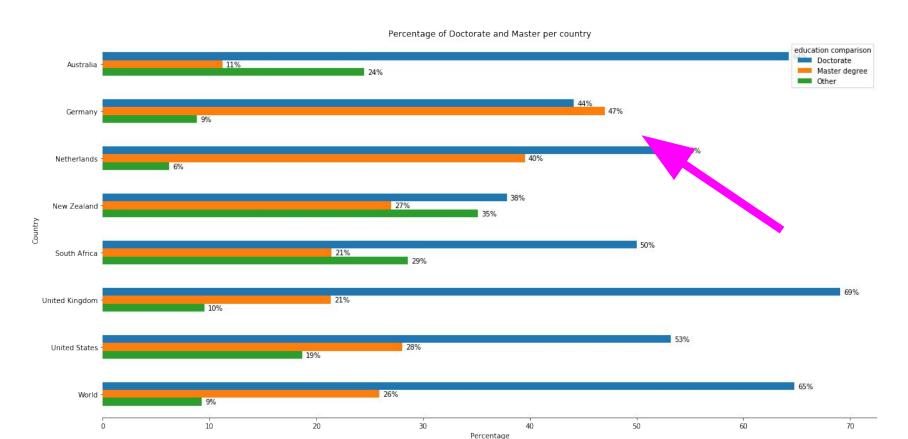




Degree	Count	%
Doctorate	133	40.06
Master degree	169	50.90
Undergraduate degree	19	5.72
Other	11	3.31



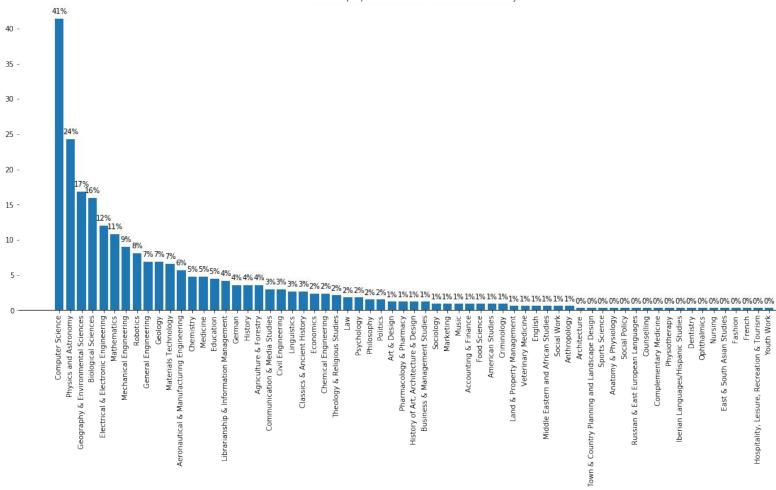
Less doctorates in Germany



Field of Work (multiple choice)

Current proportion of in which field for Germany





Grow



- Helmholtz Open Science Workshop #hgfos16
 "Access to and reuse of scientific software" 1,2,3
- RSE Community at the GFZ German Research Centre for Geosciences
- Building Communities EMBL workshop
- Working group RSE in Digital Humanities (DH-RSE within DHd Association) 1,2,3
- RSE @ FrOSCon 13 being prepared
- RSE-DE conference being discussed and successively organized









software developers/project

