ACTIVATING OPEN SCIENCE COMMUNITIES IN GÖTTINGEN:

FROM POLICIES TO REAL MEET-UPS



Image: Flickr/opensourceway

Dr Birgit Schmidt

Göttingen State and University Library

Tromsø, 29 November 2018

OPEN SCIENCE



OPEN ACCESS

OPEN SOURCE

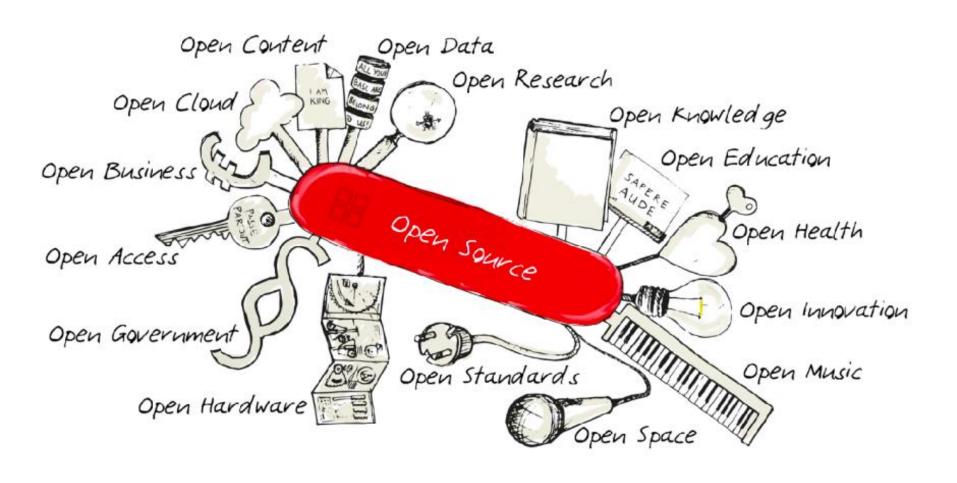
OPEN METHODOLOGY

OPEN DATA

OPEN EDUCATIONAL RESOURCES

OPEN PEER REVIEW

CITIZEN SCIENCE



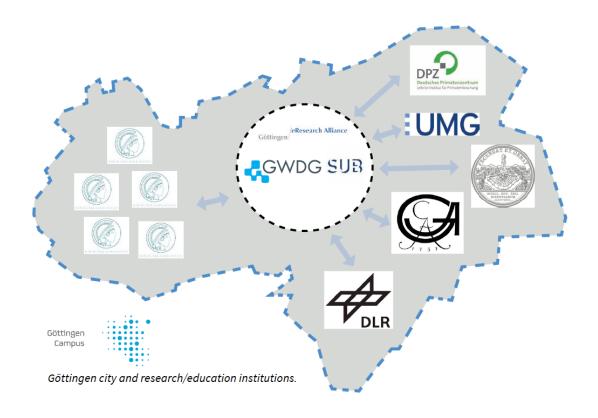
Source: Nicolas P. Rougier. Open Science. AdaWeek, Nov 2016, Paris, France. https://hal.inria.fr/hal-01418314/file/openscience-161117190957.pdf

What does Open Science mean to you?

- Publishing a paper in an OA journal
- Deposit of a preprint or final version in a repository
- Rethinking workflows, what tools enable Open Science
- Checking out data repositories, how to cite data
- Making own research more reproducible
- Engaging in replication studies

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Göttingen Campus: Several institutions & policies



Göttingen Campus, www.goettingen-campus.de

UGOE Open Access Policy

Open Access Resolution, Dec 2005: Letter by the President to all academic staff, recommendation to use OA journals, disciplinary repositories and the institutional OA repository

Open Access Policy, June resp. Nov 2016 (UGOE resp. UMG): States principles and actions/support for their implementation

UGOE Open Access Policy in a nutshell

- (1) The University promotes and supports OA to publications
- (2) Authors should not transfer exclusive rights via publishing contracts & at least retain nonexclusive rights in order to enable dissemination in OA.
- (3) Authors are asked to deposit a copy of their publication immediately upon publication into GoeScholar, UGOE's institutional repository.
- (4) Publication with OA publishers is supported. Publication costs should be taken into account in grant proposals. In addition, UGOE operates an OA publication fund (managed by SUB Göttingen).

Research data policy

Research data policy since July 2014 (UGOE and UMG)

Göttingen eResearch Alliance (eRA) established in 2014, jointly by the library (SUB) and the scientific computing centre (GWDG)

http://www.eresearch.uni-goettingen.de/

UGOE Research data policy

- 1. The University promotes and supports open access to research data.
- 2., 3. Definitions
- 4. RDM is generally the responsibility of the person leading a project and the researcher who is acting in an individual capacity...
- 5. Research projects with research data require a research data management plan...
- 6. The University provides **support and advice** for RDM during the preparatory stages of research project, during their conduct and after their completion, and provides appropriate training.
- 7. The University implements and maintains essential services...
- 8. Storage and archiving within the University's IT infrastructure
- 9. Ethics, data protection, IPR, privacy and disclosure
- 10. Exploitation: ... data should remain openly and freely available for research purposes

Göttingen eResearch Alliance

Prehistory

- Research support office: advisor on research data since 2011
- Since 2012: embedded data managers in large collaborative projects via SUB's R&D department
- Data policy July 2014, start of eRA in late 2014
- Main service areas
 - Support for storing, sharing, publishing or citing data
 - Consulting on RDM topics, e.g. DMPs, legal and ethical aspects
 - Training, e.g. graduate schools
 - Network of experts, link to related services

Funder OA policies

Funder	OA Publication	OA Repository	Time of deposit		
German Research Foundation	Optional for peer reviewed journal papers + Publication Fund (up to 2,000 EUR / paper in OA journals)	Recommended (disciplinary and/or institutional)	Within 12 months after publication		
European Commission	Optional for peer reviewed publications + eligible costs within duration of the project	Mandatory deposit (institutional and/or disciplinary)	STM: within 6 months; HSS: within 12 months		
European Research Council	Dto.	Mandatory deposit + recommended disciplinary repositories, OAPEN for books	Dto.		
Ministry for Education & Research (BMBF)	Optional + Postgrant fund (up to 2,000 EUR + 20% of any exceeding fees per publication + VAT)	Recommended	Not specified		

DFG Statement on the Establishment of "cOAlition S" to Support Open Access

- The DFG welcomes a coordinated approach among funding organisations towards the realisation of open access.
- The DFG (...) will strengthen its policy by requesting researchers to make results from DFG funding openly available.
- The DFG encourages researchers to **retain copyright** and has implemented clauses in its regulations accordingly.
- The **DFG funds the establishment of high quality open access journals,** repositories and platforms. In addition, a number of support services for open access, including services for hosting and archiving, receive DFG funding.
- The DFG contributes to vital international infrastructures for open access such as the **Directory of Open Access Journals**.
- The DFG has funding schemes for **institutional coverage of APC** with a **standardised price cap** as well as for licence negotiations including open access publications.
- The DFG participates in nationwide coordinated efforts such as the Project DEAL or the National Contact Point Open Access OA2020-DE

http://www.dfg.de/en/research_funding/announcements_proposals/2018/info_wissenschaft_18_56/index.html

Reactions to Plan S & other concerns

- Plan S: Some UGOE chemists have signed the open letter on plan S by Kamerlin et al.
 - >> approached subject librarians to find out what the library position is (contribution, lobbying?)
- License negotiations: Project DEAL of the German Alliance of Science Organisations, negotiations are on-going – progress, but no deal with Elsevier foreseen in the near future.
 - >> 30+ journal editors / researchers urge the negotiators on both sides to continue negotiations and take into account the negative effects which result for ECRs from the current situation

Implementing Open Access and Open Science in Göttingen

















information

support



platform openaccess.net

publishing services

- Universitätsverlag
- Electronic dissertations
- Repositories GoeScholar and GOEDOC











embedding

- Teaching and consulting in networks
- Publishing in networks
- publication data management

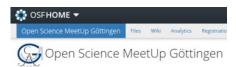




consulting

- publication strategies
- legal framework
- OA in the disciplines
- enhanced publications
- data publication
- Reporting and statistics
 - data analysis for scholarly communication
 - Agreements with OA-publishers such as NJP, PLOS, BMC, Copernicus etc.
- Publication fund supported by





SUB: Services at a Glance

- General information and support for publishing and policies (IPR, funder requirements, etc.)
- Publishing fund for publishing in OA journals
- Digital Repositories
 - eDiss: PhD theses
 - GoeScholar: peer-reviewed parallel publications
 - GoeDoc: working papers etc.
- Göttingen University Press for OA book publishing (on request support for start-up of e-journals)

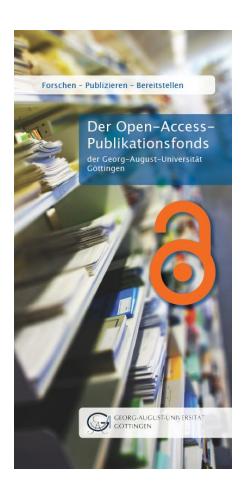


OA Publication Fund at UGOE

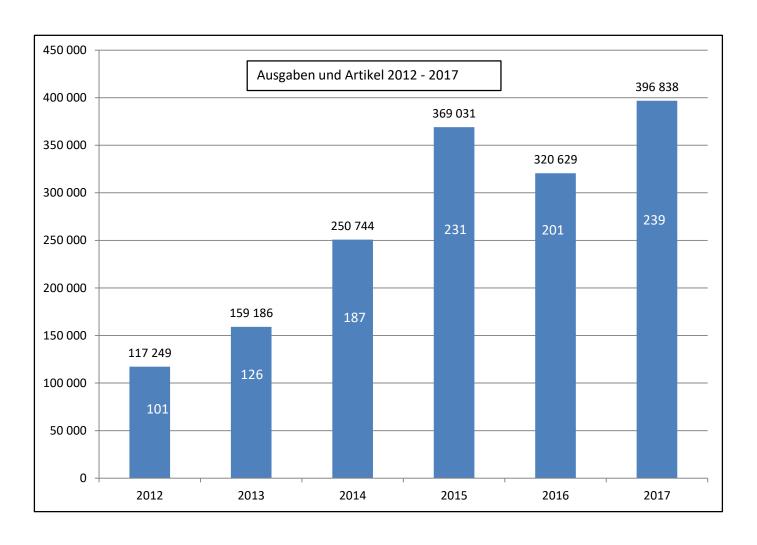
Publication fund since 2012, and several agreements with publishers since 2007

Rules of funding

- Corresponding author is affiliated with the UGOE
- Up to 2,000 EUR (higher fees may be covered through university funds)
- The article is published in a pure Open Access journal
- The journal has established a peer-review process that complies with the standards of the disciplinary community (-> check DOAJ.org)
- The article acknowledges the funding of the German Research Foundation and UGOE, e.g.: We acknowledge support by the German Research Foundation and the Open Access Publication Funds of the Göttingen University.

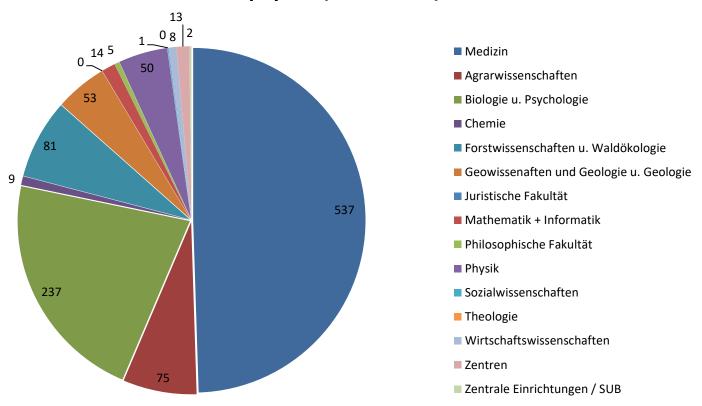


UGOE Publication Fund

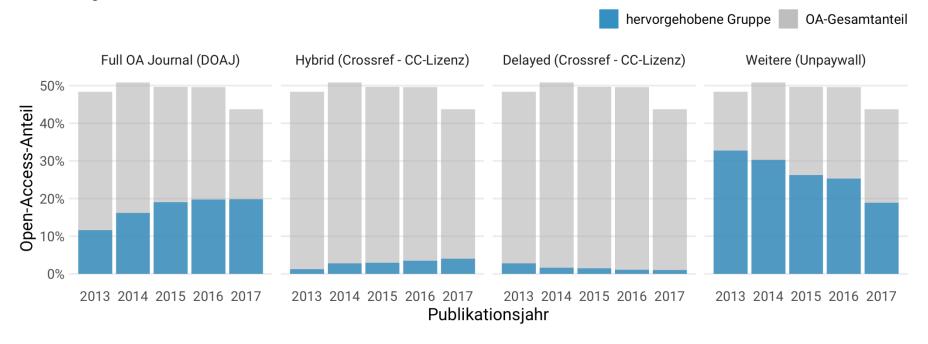


Distribution by discipline

Co-funded papers (2012-2017): 1085



Open-Access-Anteile Universität Göttingen je Open-Access-Nachweisquelle Originalartikel und Reviews im Web of Science



Open Science at Göttingen Campus, e.g. Psychology



INFORMATIONEN ZU OPEN SCIENCE

Für Wissenschaftler

Für Studierende

GOSSIP-NEUIGKEITEN

- Ausschreibung W3 Klinische Psychologie und Psychotherapie
- GOSSIP auf der In Publica
- Vorträge/Workshops zum Thema Open Science von Anne Scheel und Daniel Lakens

Göttingen Open Source & Science Initiative of Psychology

Open Science - Wege zu einer offeneren und transparenteren Wissenschaft

Innovationen und wissenschaftlicher Fortschritt treiben die moderne Wissensgesellschaft an. Aktuell zeigt sich allerdings in vieler wissenschaftlichen Disziplinen, darunter auch in der Psychologie, dass sich zentrale Befunde nicht replizieren lassen. Häufig genannte Gründe für diese Replikationskrise sind falsche Anreize im wissenschaftlichen System wie z.B. ein zu hoher Publikationsdruck sowie die Intransparenz des Erkenntnisgewinnungsprozesses, die unsaubere Arbeit und fragwürdige wissenschaftliche Praktiken begünstigen können. Um diesem Problem zu begegnen, sind Integrität, Reproduzierbarkeit und freie Verfügbarkeit von Forschungsergebnissen essentiell.

Die Göttinger Open Source und Science Initiative der Psychologie, kurz "GOSSIP", gründete sich am 7. Juni 2016 und setzt sich entsprechend für vertrauenswürdige und replizierbare Ergebnisse sowie die freie Verfügbarkeit wissenschaftlicher Re veranstalten wir regelmäßige Treffen und bieten Informationsveranstaltungen und Workshops rund um



Göttingen Open Source & Science Initiative of Psychology

Für Wissenschaftler Für Studierende Neuigkeiten Newsletter

INFORMATIONEN ZU OPEN SCIENCE

- Für Wissenschaftler
- Für Studierende

GOSSIP-NEUIGKEITEN

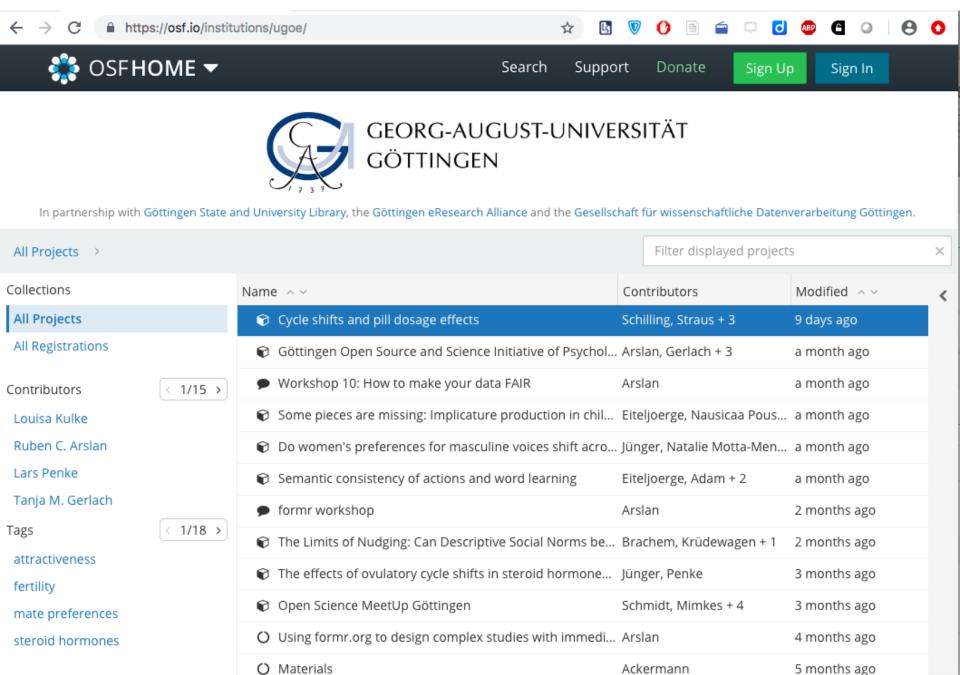
- Ausschreibung W3 Klinische
- Psychologie und Psychotherapie
- GOSSIP auf der In Publica Commodal
- Vorträge/Workshops zum Thema Open Science von Anne Scheel und Daniel Lakens

Für Studierende

GOSSIP setzt sich dafür ein, Inhalte rund um robustere, transparente und replizierbare Forschung in der Bachelor- und Masterausbildung zu verankern. Ab jetzt heißt es: Open Science ab dem ersten Bachelor-Semester :)

Hier eine Übersicht über alle Lehrveranstaltungen (geordnet nach Semester), in denen aktuell Open Science behandelt wird:

Veranstaltungen Psychologie	Art	BA/MA	Semester	Dozent(en)	Inhalt
Sozialpsychologie II: Intra- und Intergruppenprozesse	VL	BA	1	Thomas Schultze- Gerlach	Übersicht Replikationskrise, Skizze der Ursachen, QRPs, Beispiele prominenter nicht replizierbarer Befunde, Open Science-Badges
Wissenschaftliche Kompetenzen für die Psychologie	VL	ВА	2	Melanie Schreiner	Einführung Replikationskrise, Replikationsstudie Manybabies, Vorstellung vom OSF, neue Artikelformate
Experimentalpraktikum	Praktikum	BA	3	diverse	Badges für Studien, die Open Science-Kriterien erfüllen
Persönlichkeitspsychologisches Forschen	Wahlpflicht- Modul 4 SWS	BA	5	Tanja Gerlach	Einführung Replikationskrise, Probleme + mögliche Lösungen, neue Artikelformate (z.B. großangelegte Replikationsstudien



Male facial attractiveness, dominance, and health and t... Kordsmeyer, Penke + 1

6 months ago



The University of Göttingen invites applications for the position of a

Professorship (W3 salary level, tenured) in "Clinical Psychology and Psychotherapy"

The position will be available at the Georg-Elias-Müller-Institute of Psychology, belonging to the Faculty of Biology and Psychology. Earliest starting date is 1 October 2018.

The University is looking for researchers with an excellent, internationally visible research profile in clinical psychology that fits into the research program of the Institute of Psychology (focusing on basic psychological research in biological psychology, cognition, and social psychology). Applicants should have a proven track-record in acquiring competitive third-party grants.

Teaching responsibilities of the professorship include the entire field of clinical psychology and psychotherapy in the B.Sc. and M.Sc. programs in psychology. In addition, the professorship is responsible for the continuation of the current post-graduate study program "Psychological Psychotherapy" at the University of Göttingen. The teaching language in all of these programs is German. More detailed information about the professorship can be found at http://www.psych.uni-goettingen.de/news/jobs/clinical-psychology.

Appointments will be made by the university according to the Higher Education Act of Lower Saxony (Niedersächsisches Hochschulgesetz), particularly §25. Further details are given on request.

Applicants should hold a doctoral degree, have an outstanding research and teaching record, and a German approbation as a psychological psychotherapist or equivalent practical qualification.

Applications by advanced junior scientists, and by scientists from foreign countries are explicitly encouraged. The Institute aims for open, transparent and reproducible research, in line with the recent recommendations by the German Society of Psychology (Deutsche Gesellschaft für Psychologie, DGPs). Applicants are asked to outline how they have pursued these goals in the past, and how they plan to do so in the future.

The University of Göttingen intends to increase the proportion of women in research and teaching in areas where they are, so far, underrepresented and, hence, strongly encourages female scientists to apply. The University of Göttingen is an equal-opportunities employer. Furthermore, the university pursues the goal of hiring more disabled persons. Therefore, priority will be given to disabled persons with equivalent qualifications.

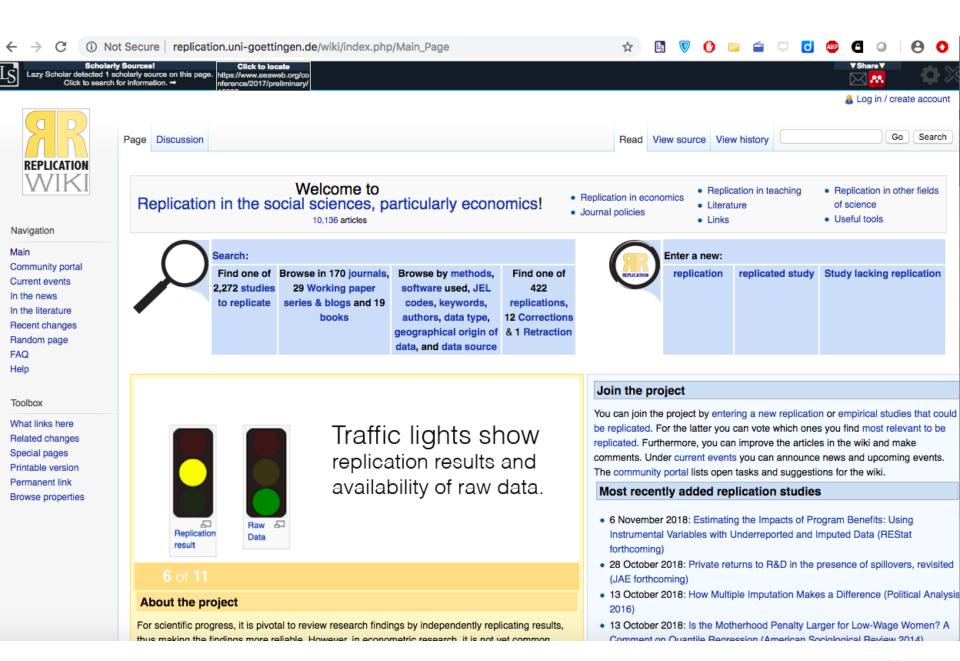
Applications with CV including list of publications, teaching experience, grants, and a research statement should reach the faculty no later than 17 September 2017 and should be addressed to:

Dean of the Faculty of Biology and Psychology at the Georg-August University of Göttingen, Wilhelm-Weber-Str. 2, D-37073 Göttingen, Germany. All documents should be sent as hard copies and, in addition, be put together as a single PDF file on a CD.



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Open Science Göttingen Meet-up

- Initiated in Autumn 2016
- Focus on Open Science topics: research data, publishing, peer review, research integrity, etc.
- Junior researchers, librarians, research management, HE didactics, from UGOE, Max Planck Institutes etc.
- Outreach primarily via graduate schools' mailing lists





Work mode

- Quarterly Meet-ups with short presentations & group discussions
- Working groups (monthly): Teaching Open Science, HackyHour

./ Goettingen

Monthly HackyHour meetings in Göttingen

http://hackyhour.github.io/Goettingen/

View on GitH	lub

About

Come to talk about computer stuff in

If you want to know improve your scier scienc-y" people: computational probalong, we might be the right direction).

Date	lime	Venue	Summary	Dis	cuss	ion
2017-02-07	6 pm	<u>SUB</u>	Organizational	<u>#1</u>	and	pad
2017-03-14	6 pm	<u>Neotopia</u>	Jupyter-Notebook	<u>#3</u>	and	pad
2017-04-04	6 pm	<u>Neotopia</u>	Unittests with code coverage and continuous integration	<u>#4</u>	and	<u>pad</u>
2017-05-09	6 pm	<u>Neotopia</u>	Tidy Data	<u>#5</u>	and	pad
2017-06-06	6 pm	<u>Neotopia</u>	Services of the GWDG			pad
2017-07-04	6 pm	<u>Neotopia</u>	BibTex/BibLatex/Biber			pad
2017-08-01	6 pm	<u>Neotopia</u>	How to write a thesis with R Markdown	<u>#9</u>	and	pad
2017-08-29	6 pm	<u>Neotopia</u>	Basic introduction to MathJax by @pkra	<u>#10</u>	and	pad
2017-11-07	6 pm	<u>Neotopia</u>	Automate using make	<u>#11</u>	and	pad
2017-12-05	6 pm	<u>Neotopia</u>	Pandoc	<u>#12</u>	and	pad
2018-01-09	6 pm	<u>Neotopia</u>	Repositories: ArXiv/Goescholar/Zenodo	<u>#13</u>	and	pad
2018-02-06	6 pm	<u>Neotopia</u>	Jupyter Hub @ GWDG	<u>#14</u>	and	pad
2018-03-13	6 pm	<u>Neotopia</u>	Göttingen Data Science Meetup & Kaggle	<u>#15</u>	and	pad
2018-04-10	6 pm	<u>Neotopia</u>	TikZ	<u>#16</u>	and	<u>pad</u>
2018-05-15	6 pm	<u>Neotopia</u>	GNU Parallel & draw.io	<u>#17</u>	and	<u>pad</u>
2018-06-12	6 pm	<u>Neotopia</u>	emacs org mode	<u>#18</u>	and	pad
2018-08-21	6 pm	<u>Neotopia</u>	Tensorflow	<u>#19</u>	and	pad

No registration etc. needed!

When and Where

We meet every four weeks on a Tuesday at 6 pm at "Neotopia". Feel free to join the <u>Gitter chat</u> and/or the <u>mailing list</u> if you have any questions/topic suggestions beforehand.

A typical Agenda

Welcome & Round of introductions >> one thought on today's topic

Short presentations

Show & Tell >> e.g. a relevant service/approach

Outbreak discussion >> guiding questions

Summary & planning

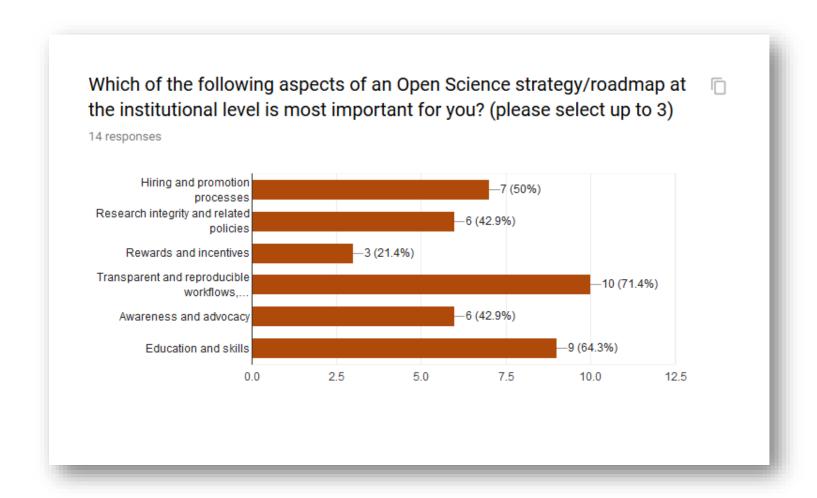
8th Open Science Meet-up

OPEN SCIENCE STRATEGIES & ROADMAPS

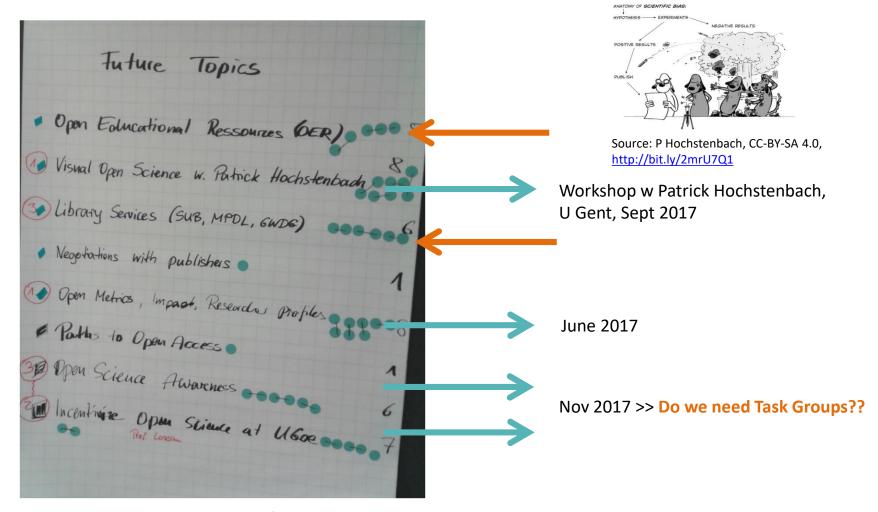
Göttingen, 19 Sept 2018

Source: https://flic.kr/p/EiKncb

Poll from registration



What's next?



Comments and/or further suggestions?

e.g. digital repositories, preprints, citizen science, reproducible research, ...



Open Access Week 2018

Make your research visible!

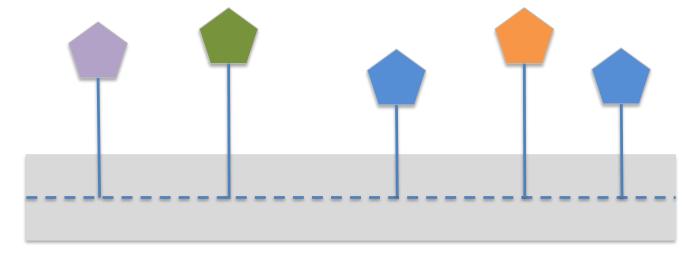
- Meet the experts on publishing, data management and legal issues at an open marketplace
- Watch the brand new movie
 "Paywall The business of Scholarship"
- The screening will be from 5-6pm, before and afterwards you have the chance to meet the University's experts.

24th October, 4:15pm
Historical Building,
Alfred-Hessel Saal (1rst floor)

A wishlist for a Göttingen Campus Open Science Roadmap

- Target transparency, reproducibility & quality of research
- A model sentence for all UGOE job postings
 >> following the psychology example
- Incentives and rewards, rethink research assessment
- Education and training of junior researchers, qualification of staff
 >> integrate OS into research integrity trainings (e.g. GAUSS graduate school)
- Room for experiments: Improvement of workflows, collaboration and sharing, combining tools

• ...



Stepping up data literacy

- eRA Data management workshops, embedded data librarians & on-demand, e.g. in the context of collaborative research projects resp. graduate schools
- "Daten Lesen Lernen" project, data literacy courses & lab from Summer term 2019
 >> initiated by Centre for Statistics & PhD students
- Carpentries, membership since Sept 2018
 >> SUB/GWDG staff currently onboarding as instructors

DATENKOMPETENZ IN WIRTSCHAFT, WISSENSCHAFT UND GESELLSCHAFT

Data Literacy Basics

Fakultäts- & campusübergreifende Lehrveranstaltung zur Vermittlung grundlegender Datenkompetenzen an Bachelorstudierende

Hands-on Prinzip

Praxisorientiert und forschungsnahe

Data Lab

Beratungsangebot für Studierende zu datenwissenschaftlichen Fragestellungen in Haus- & Abschlussarbeiten

Pool von echten fachspezifischen Lehrdatensätzen aus Forschung und Praxis

Tutorien und Projektarbeiten, getragen von einer Community von Promovierenden

Open Educational Resources

Vertiefende Kompetenzbereiche: Datensammlung, Datenmanagement, Ethik,...

Systematische Katalogisierung existierender Angebote

Systematische Curriculare Anrechnung



https://www.uni-goettingen.de/en/592287.html



Project "Daten Lesen Lernen", one of the winners of a competition organized by Stifterverband der Wissenschaft and Heinz Nixdorf Stiftung



We teach foundational coding and data science skills to researchers worldwide.



What we do

The Carpentries teach foundational coding, and data science skills to researchers worldwide. Software Carpentry, Data Carpentry, and Library Carpentry workshops are based on our lessons. Workshop hosts, Instructors, and learners must be prepared to follow our **Code of Conduct**.





Who we are

We are a diverse, global community of volunteers. Our community includes <u>Instruc-</u> tors, helpers, <u>Trainers</u>, <u>Maintainers</u>, <u>Men-</u> tors, community champions, <u>member or-</u> ganisations, supporters, workshop organisers, staff and a whole lot more.





Get involved

See all the ways you can engage with the Carpentries. Get information about upcoming events such as workshops, meetups, and discussions from our community calendar, or from our twice-monthly newsletter, Carpentry Clippings. Follow us on Twitter, Facebook, and Slack.

More >

Conclusions & Next steps

- Be patient & persistent in order to bring OS forward
- Alliances with ERCs & others very rewarding and also opens doors to university management
- Discussion topics change over time but some return (take concerns seriously)
- Leave lots of room for exploring views, needs & approaches (learn across disciplines)
- Continue to promote OS learning opportunities
 & good practices (more likely through a roadmap than a policy)

Thank you. Any questions?

With many thanks to colleagues who contributed slides: Margo Bargheer, Najko Jahn.

Dr Birgit Schmidt, <u>bschmidt@sub.uni-goettingen.de</u>

Twitter: @bschmid1

SUB/Open Science https://www.sub.uni-goettingen.de/en/electronic-

publishing/open-science/

OFFENER BRIEF

NO DEAL IS NO OPTION

Eine Bitte von Herausgebern wissenschaftlicher Zeitschriften an die Verhandlungsführer der

Hochschulrektorenkonferenz und des Elsevier-Verlags (DEAL-Verhandlungen)

Open Science kommentiert am 12.10,2018:

The Conflict over Open Access between Elsevier and German Academic Institutions Shows the Importance of Journal Subscriptions

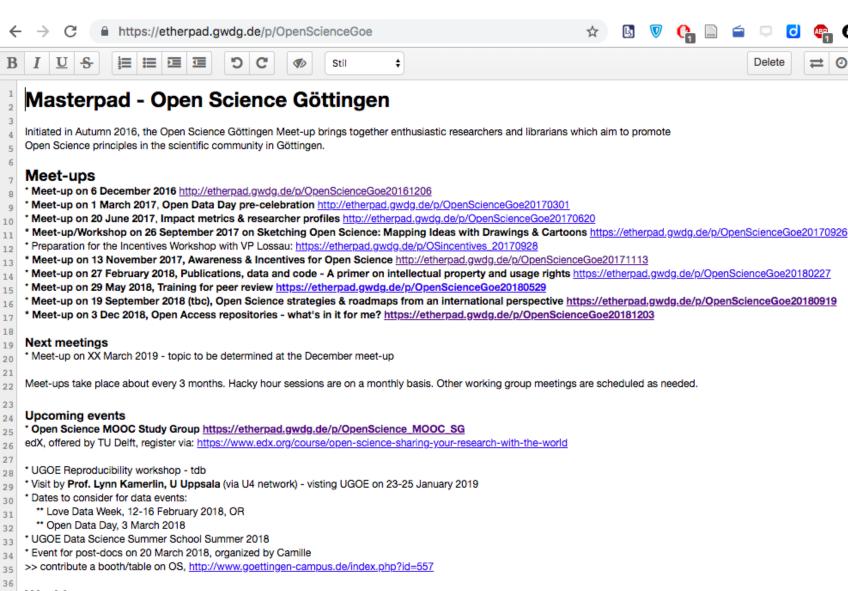
...In the meanwhile, numerous representatives of German universities and publishers, such as Astrid Holzheid from Universität Kiel and Georg von Samson-Himmelstjerna from the Free University Berlin, have stressed in their open letter that failing to reach a subscription deal with Elsevier can have unwelcome repercussions for local scientific institutions. The uncertainty over the access to Elsevier's journals can translate into competitive disadvantages for German researchers, universities and institutes, due to being shut off from direct access to the majority of scholarly articles that Elsevier publishers...

https://openscience.com/the-conflict-over-open-access-between-elsevier-and-german-academic-institutions-shows-the-importance-of-journal-subscriptions

Boersenblatt.net kommentiert am 08. 10.2018:

"No DEAL is no Option"

Weil die Verhandlungen zwischen der Hochschulrektorenkonferenz (HRK) und dem Elsevier-Verlag um eine Nationallizenz für elektronische Wissenschaftsjournale (Projekt "DEAL") seit Monaten stocken und keine Einigung in Sicht ist, appellieren mehr als 30 Herausgeber wissenschaftlicher Zeitschriften an die Verhandlungsführer beider Seiten, die Verhandlungen zügig fortzuführen.....



Working groups

37

38 39

40

42

Teaching OpenScience http://etherpad.gwdg.de/p/GoeTeachingOpenScience

- Website HackyHour https://hackyhour.github.io/Goettingen/
- MasterPadHackyHour http://etherpad.gwdg.de/p/HackyHourGoettingen
- Carpentries (Data/Software/Library) https://etherpad.gwdg.de/p/GOECarpentries

Delete