Course literature, Research data for doctoral students in an Open Science landscape

Compulsory literature

Allen, C., & Mehler, D. M. A. (2019). Open science challenges, benefits and tips in early career and beyond. *PLoS Biology*, *17*(5), e3000246-e3000246. https://doi.org/10.1371/journal.pbio.3000246

Contaxis, N., Clark, J., Dellureficio, A., Gonzales, S., Mannheimer, S., Oxley, P. R., Ratajeski, M. A., Surkis, A., Yarnell, A. M., Yee, M., & Holmes, K. (2022). Ten simple rules for improving research data discovery. *PLoS Computational Biology*, *18*(2), e1009768-e1009768. https://doi.org/10.1371/journal.pcbi.1009768

Eke, D., Aasebø, I. E. J., Akintoye, S., Knight, W., Karakasidis, A., Mikulan, E., Ochang, P., Ogoh, G., Oostenveld, R., Pigorini, A., Stahl, B. C., White, T., & Zehl, L. (2021). Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility. *Neuroimage. Reports*, *1*(4), 100053. https://doi.org/10.1016/j.ynirp.2021.100053

Hagger, M. S. (2022). Developing an open science 'mindset'. *Health Psychology and Behavioral Medicine*, *10*(1), 1-21. https://doi.org/10.1080/21642850.2021.2012474

Hasselbring, W., Carr, L., Hettrick, S., Packer, H., & Tiropanis, T. (2020). From FAIR research data toward FAIR and open research software. *Information technology (Munich, Germany)*, *62*(1), 39-47. https://doi.org/10.1515/itit-2019-0040

Higman, R., Bangert, D., & Jones, S. (2019). Three camps, one destination: the intersections of research data management, FAIR and Open. *Insights the UKSG journal*, *32*(1), 1-9. https://doi.org/10.1629/uksg.468

Mendez, D., Graziotin, D., Wagner, S., & Seibold, H. (2020). Open Science in Software Engineering. In M. Felderer & G. H. Travassos (Eds.), *Contemporary Empirical Methods in Software Engineering* (pp. 477-501). Springer International Publishing. https://doi.org/10.1007/978-3-030-32489-6_17

Miguel, E. (2021). Evidence on Research Transparency in Economics. *The Journal of economic perspectives*, *35*(3), 193-214. https://doi.org/10.1257/jep.35.3.193

Omer Hassan, A. (2020). Overview of the Principles and Practices of Open Access Publishing. In V. Sadia (Ed.), *Digital Libraries* (pp. Ch. 4). IntechOpen. https://doi.org/10.5772/intechopen.95355

Smale, N., Denyer, G., Unsworth, K., Magatova, E., & Barr, D. (2020). A review of the history, advocacy and efficacy of data management plans. *International Journal of Digital Curation*, *15*(1), 30. https://doi.org/10.2218/ijdc.v15i1.525

Swedish National Data Service. (2024). *Home | Swedish National Data Service*. https://snd.gu.se/en

Swedish Research Council. (2024). *Open science*. Swedish Research Council. https://www.vr.se/english/mandates/open-science.html

van Dijk, W., Schatschneider, C., & Hart, S. A. (2021). Open Science in Education Sciences. *Journal of learning disabilities*, *54*(2), 139-152. https://doi.org/10.1177/0022219420945267

Reference literature

Boté, J.-J., & Termens, M. (2019). Reusing Data Technical and Ethical Challenges. *DESIDOC Journal of Library & Information Technology*, *39*(6), 329-337. https://doi.org/10.14429/djlit.39.06.14807

Chataway, J., Parks, S., & Smith, E. (2017). How Will Open Science Impact on University-Industry Collaboration? *Foresight and STI governance*, *11*(2), 44. https://doi.org/10.17323/2500-2597.2017.2.44.53

EUROPEAN COMMISSION Directorate-General for Research & Innovation. (2016). *H2020 Programme Guidelines on FAIR Data Management in Horizon 2020*. https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf

Michener, W. K. (2015). Ten Simple Rules for Creating a Good Data Management Plan. *PLoS Computational Biology*, *11*(10), e1004525-e1004525. https://doi.org/10.1371/journal.pcbi.1004525

Stieglitz, S., Wilms, K., Mirbabaie, M., Hofeditz, L., Brenger, B., López, A., & Rehwald, S. (2020). When are researchers willing to share their data? – Impacts of values and uncertainty on open data in academia. *PloS one*, *15*(7), e0234172-e0234172. https://doi.org/10.1371/journal.pone.0234172

Swedish National Data Service. (2021). *Checklist for data management plan*. https://doi.org/10.5281/zenodo.6424769

Weilenmann, A.-K. (2021). Multiple Facets of Open: A Different View on Open Science. In V. Sadia (Ed.), *Digital Libraries* (pp. Ch. 3). IntechOpen. https://doi.org/10.5772/intechopen.97815

Wilkinson, M. D., Dumontier, M., Aalbersberg, I. J. J., Appleton, G., Axton, M., Baak, A., Blomberg, N., Boiten, J.-W., da Silva Santos, L. B., Bourne, P. E., Bouwman, J., Brookes, A. J., Clark, T., Crosas, M., Dillo, I., Dumon, O., Edmunds, S., Evelo, C. T., Finkers, R., . . . Mons, B. (2016). The FAIR Guiding Principles for scientific data management and stewardship. *Scientific data*, *3*(1), 160018-160018. https://doi.org/10.1038/sdata.2016.18

Course literature list divided according to each occasion

Lecture 1

Compulsory literature

Allen, C., & Mehler, D. M. A. (2019). Open science challenges, benefits and tips in early career and beyond. *PLoS Biology*, *17*(5), e3000246-e3000246. https://doi.org/10.1371/journal.pbio.3000246

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Swedish Research Council. (2024). *Open science*. Swedish Research Council. https://www.vr.se/english/mandates/open-science.html

Reference literature

Chataway, J., Parks, S., & Smith, E. (2017). How Will Open Science Impact on University-Industry Collaboration? *Foresight and STI governance*, *11*(2), 44. https://doi.org/10.17323/2500-2597.2017.2.44.53

Stieglitz, S., Wilms, K., Mirbabaie, M., Hofeditz, L., Brenger, B., López, A., & Rehwald, S. (2020). When are researchers willing to share their data? – Impacts of values and uncertainty on open data in academia. *PloS one*, *15*(7), e0234172-e0234172. https://doi.org/10.1371/journal.pone.0234172

Weilenmann, A.-K. (2021). Multiple Facets of Open: A Different View on Open Science. In V. Sadia (Ed.), *Digital Libraries* (pp. Ch. 3). IntechOpen. https://doi.org/10.5772/intechopen.97815

Lecture 2

Compulsory literature

Contaxis, N., Clark, J., Dellureficio, A., Gonzales, S., Mannheimer, S., Oxley, P. R., Ratajeski, M. A., Surkis, A., Yarnell, A. M., Yee, M., & Holmes, K. (2022). Ten simple rules for improving research data discovery. *PLoS Computational Biology*, *18*(2), e1009768-e1009768. https://doi.org/10.1371/journal.pcbi.1009768

Hasselbring, W., Carr, L., Hettrick, S., Packer, H., & Tiropanis, T. (2020). From FAIR research data toward FAIR and open research software. *Information technology (Munich, Germany)*, *62*(1), 39-47. https://doi.org/10.1515/itit-2019-0040

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Seminar

Compulsory literature

Eke, D., Aasebø, I. E. J., Akintoye, S., Knight, W., Karakasidis, A., Mikulan, E., Ochang, P., Ogoh, G., Oostenveld, R., Pigorini, A., Stahl, B. C., White, T., & Zehl, L. (2021). Pseudonymisation of neuroimages and data protection: Increasing access to data while retaining scientific utility. *Neuroimage. Reports*, *1*(4), 100053. https://doi.org/10.1016/j.ynirp.2021.100053

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Workshop

Compulsory literature

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Reference literature

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Michener, W. K. (2015). Ten Simple Rules for Creating a Good Data Management Plan. *PLoS Computational Biology*, *11*(10), e1004525-e1004525. https://doi.org/10.1371/journal.pcbi.1004525

Swedish National Data Service. (2021). *Checklist for data management plan*. https://doi.org/10.5281/zenodo.6424769