

Douglas Schuster

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Professional Experience

- 2017 – **Manager**, National Center for Atmospheric Research (NCAR), Computational and Informations Lab (CISL), Data Engineering and Curation Section (DECS), Boulder, CO
- 2011 – 2017 **Database Engineer**, NCAR,CISL,DECS
- 2006 – 2011 **Software Engineer III**, NCAR,CISL,DECS
- 2002 – 2006 **Software Engineer II**, NCAR,CISL,DECS
- 2007 – 2007 **Consultant**, European Centre for Medium-Range Weather Forecasts
- 2001 – 2002 **Research Scientist**, Foresight Weather LLC.
- 1998 – 2001 **Graduate Research Assistant**, Department of Atmospheric Science, Colorado State University

Education

- M.S.**, Atmospheric Science, Colorado State University 2001
- B.S.**, Civil Engineering, University of Minnesota 1998

Membership and Service

- Member, American Geophysical Union (AGU) 2014 –
- Member, American Meteorological Society (AMS) 2014 –
- Expert Evaluator, ECMWF Copernicus Climate Data Store 2015 –
- Member, WMO TIGGE Panel 2018 – 2022
- Chair, AMS Board on Data Stewardship 2019 –
- Member, NASA PO.DAAC Users Working Group 2019 –
- Facilitator, Data Sharing Seminar Series for Societies 2021 – 2022

Publications

Refereed Journal Articles

- Mullendore, G. L., Mayernik, M. S., & Schuster, D. C. (2021). **Open science expectations for simulation-based research**. *Frontiers In Climate*, 3, 763420. doi:10.3389/fclim.2021.763420
- Slivinski, L. C., Compo, G. P., Sardeshmukh, P. D., Whitaker, J. S., McColl, C., Allan, R. J., ... Wyszynski, P. (2021). **An evaluation of the performance of the Twentieth Century Reanalysis version 3**. *Journal Of Climate*, 34, 1417-1438. doi:10.1175/JCLI-D-20-0505.1

- Schuster, D. C., Mayernik, M., Hou, C. -Y., Stossmeister, G. J., Downs, R. R., Kinkade, D., ... Zhang, F. (2019). **Challenges and future directions for data management in the geosciences**. Bulletin Of The American Meteorological Society, 100, 909-912. doi:10.1175/BAMS-D-18-0319.1
- Cram, T. A., Compo, G. P., Yin, X., Allan, R. J., McColl, C., Vose, R. S., ... Worley, S. J. (2015). **The International Surface Pressure Databank version 2**. Geoscience Data Journal, 2, 31-46. doi:10.1002/gdj3.25
- Bougeault, P., Toth, Z., Bishop, C., Brown, B. G., Burridge, D., Chen, D. H., ... Worley, S. (2010). **The THORPEX Interactive Grand Global Ensemble**. Bulletin Of The American Meteorological Society, 91, 1059-1072. doi:10.1175/2010BAMS2853.1

Technical Reports

- Mayernik, M., Schuster, D., Hou, S., & Stossmeister, G. J. (2018). **Geoscience Digital Data Resource and Repository Service (GeoDaRRS) Workshop Report** (No. NCAR/TN-552+PROC). doi:10.5065/D6NC601B

Selected Conference and Seminar Presentations

- Schuster, D., G. Mullendore, and M. Mayernik, (2023) **Tools to Assist Simulation Based Researchers in Deciding What Project Outputs to Preserve and Share** [7A.6], presented at 2023 Annual Meeting, AMS, 8-12 Jan.
- Schuster, D., G. Mullendore, and M. Mayernik, (2021), **How to fulfill open science expectations for simulation based research?** [A45K-997], presented at 2021 Fall Meeting, AGU, 13-17 Dec.
- Schuster, D., G. Mullendore, and M. Mayernik, (2021), **Rubric for Models and Model Data — Best Practices for Preservation and Replicability**, presented at COPDESS Editor Workshop Seminar Series, 28 May.
- Schuster, D., (2020), **Using FAIR Data Principles to Accelerate Scientific Discovery in the Ocean and Atmospheric Sciences**, Presented at Royal Met Society Webinar Series on How and Why You Should Publish Your Geoscience Dataset, 11 Nov.
- Schuster, D., (2019), **Managing diverse data submissions within a multi-repositories ecosystem** [IN14B-07], Presented at 2019 Fall Meeting, AGU, 9-13 Dec.
- Schuster, D., (2019), **Experiences Between Data Providers and Curators, NCAR Repository Perspective**, Presented at 2019 USGS Community for Data Integration Workshop, 4 Jun.
- Schuster, D. M. Mayernik, and H. Chung-Yi (2018), **Geoscience Digital Data Resource and Repository Service** [445], Presented at 2018 Annual Meeting, AMS, 7-11 Jan.
- Schuster D., (2017), **Accessing Multi-TB-sized Datasets at NCAR's Research Data Archive**, Presented at 16th Workshop on Meteorological Operational Systems, ECMWF, 1-3 Mar.