

NSF BIOGRAPHICAL SKETCH

NAME: Knuth, Shelley L.

POSITION TITLE & INSTITUTION: Assistant Vice Chancellor and Director of Research Computing, Research Computing, University of Colorado

(a) PROFESSIONAL PREPARATION -(see PAPPG Chapter II.C.2.f.(a))

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
University of Wisconsin	Madison, WI	Atmospheric and Oceanic Sciences	BS	2002
University of Wisconsin	Madison, WI	Atmospheric and Oceanic Sciences	MS	2007
University of Colorado	Boulder, CO	Atmospheric and Oceanic Sciences	PHD	2014

(b) APPOINTMENTS -(see PAPPG Chapter II.C.2.f.(b))

2021 - present Assistant Vice Chancellor and Director of Research Computing, Research Computing, University of Colorado, Boulder, CO

2021 - present Executive Director, Center for Research Data and Digital Scholarship, University of Colorado, Boulder, CO

2017 - present Assistant Professor Adjoint, University Libraries, University of Colorado, Boulder, CO

2017 - 2021 Associate Director of User Services, Research Computing, University of Colorado

2016 - 2021 Initiative Director of Education and Training, Center for Research Data and Digital Scholarship (CRDDS), University of Colorado, Boulder, CO

2016 - 2017 Assistant Director of Research Data and Training, Research Computing, University of Colorado, Boulder, CO

2014 - 2016 Senior Research Data Specialist, Research Computing, University of Colorado, Boulder, CO

2009 - 2014 Professional Research Assistant, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, CO

2002 - 2010 Research Specialist, Space Science and Engineering Center, University of Wisconsin, Madison, WI

(c) PRODUCTS -(see PAPPG Chapter II.C.2.f.(c))

Products Most Closely Related to the Proposed Project

1. Knuth S, Johnson A, Lindquist T, Weiss D, Hamrick D, Hauser T, Reynolds L. The Center for Research Data and Digital Scholarship at the University of Colorado-Boulder. Bulletin of the Association for Information Science and Technology. 2017 January; 43(2):46-48. Available from: <http://doi.wiley.com/10.1002/bul2.2017.1720430215> DOI: 10.1002/bul2.2017.1720430215
2. Knuth S, Johnson A, Hauser T. Research Data Services at the University of Colorado Boulder. Bulletin of the Association for Information Science and Technology. 2015 August; 41(6):35-38. Available from: <http://doi.wiley.com/10.1002/bult.2015.1720410614> DOI:

10.1002/bult.2015.1720410614

3. Papich S, Knuth S, Ruprecht P, Hauser T. The Impacts of Outreach Efforts by Research Computing at the University of Colorado Boulder. Proceedings of the Practice and Experience in Advanced Research Computing 2017 on Sustainability, Success and Impact. PEARC17: Practice and Experience in Advanced Research Computing 2017; 09 0 17; New Orleans LA USA. New York, NY, USA: ACM; c2017. Available from: <https://dl.acm.org/doi/10.1145/3093338.3093377> DOI: 10.1145/3093338.3093377
4. Knuth S, Frahm J, Monaghan A, Trahan D, Sampedro Z, Holt A, Dunn T, Hauser T, Burns P. An Expansion of the User Support Services for the Research Computing Group at the University of Colorado Boulder. Proceedings of the Practice and Experience in Advanced Research Computing on Rise of the Machines (learning). PEARC '19: Practice and Experience in Advanced Research Computing; 28 0 19; Chicago IL USA. New York, NY, USA: ACM; c2019. Available from: <https://dl.acm.org/doi/10.1145/3332186.3332229> DOI: 10.1145/3332186.3332229
5. Monaghan A, Milash B, Magle T, Hauser T, Cheatham T, Burns P, Knuth S, Orendt A, White S, Paschal D, Siegel H, Kaiser T, Johnson A, Yeager B. Improving regional cyberinfrastructure services through collaboration. Proceedings of the Practice and Experience in Advanced Research Computing on Rise of the Machines (learning). PEARC '19: Practice and Experience in Advanced Research Computing; 28 0 19; Chicago IL USA. New York, NY, USA: ACM; c2019. Available from: <https://dl.acm.org/doi/10.1145/3332186.3332232> DOI: 10.1145/3332186.3332232

Other Significant Products, Whether or Not Related to the Proposed Project

1. Johnson A, Knuth S. Data Management Plan Requirements for Campus Grant Competitions: Opportunities for Research Data Services Assessment and Outreach. Journal of eScience Librarianship. 2016 April 19; 5(1):e1089-. Available from: <http://escholarship.umassmed.edu/jeslib/vol5/iss1/1/> DOI: 10.7191/jeslib.2016.1089
2. Knuth S.L., Cassano J.J.. Estimating sensible and latent heat fluxes using the integral method from in situ aircraft measurements. Journal of Atmospheric and Oceanic Technology. 2014; 31(9):1964-1981. Available from: <http://www.scopus.com/inward/record.url?eid=2-s2.0-84907438723&partnerID=MN8TOARS> DOI: 10.1175/JTECH-D-14-00008.1
3. Knuth S, Cassano J, Maslanik J, Herrmann P, Kernebone P, Crocker R, Logan N. Unmanned aircraft system measurements of the atmospheric boundary layer over Terra Nova Bay, Antarctica. Earth System Science Data. 2013 February 18; 5(1):57-69. Available from: <https://essd.copernicus.org/articles/5/57/2013/> DOI: 10.5194/essd-5-57-2013

(d) SYNERGISTIC ACTIVITIES -(see PAPPG Chapter II.C.2.f.(d))

1. Bridges-2 Advisory Committee Member
2. Associate Chair for Tutorials, PEARC21 Conference
3. Invited participant, NSF CI Workforce Workshop (October 2020)
4. Elected member of the XSEDE Campus Champions Leadership Team (term ended 2021)
5. Co-Chair, SigHPC SysPros Education Committee