Curriculum Vitae - Karl Kent Benedict

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Education

July 2004, Ph.D., with Distinction, Anthropology, University of New Mexico.
May 1995, M.A., with Distinction, Anthropology, University of New Mexico.
May, 1986, B.A., Anthropology, University of California, Berkeley.

Selected Employment/Professional Experience

7/14-Present, University of New Mexico, College of University Libraries and Learning Sciences (CUL&LS): *Associate Professor*: Director of Information Technology (5/19-Present), Director of Research Data Services (7/14-Present)

7/08-6/14, University of New Mexico, Earth Data Analysis Center: *Director* / Department of Geography: *Research Assistant Professor*

9/11-3/14, University of New Mexico, CUL&LS: *Research Assistant Professor*

2/01-6/08, University of New Mexico, Earth Data Analysis Center: *Senior Research Scientist, Research Scientist, IT Manager*

Selected Publications & Products

Wheeler, Jonathan, Karl Benedict. 2015. 'Functional Requirements Specification for Archival Asset Management: Identification and Integration of Essential Properties of Services Oriented Architecture Products'. *Journal of Map and Geography Libraries* 11(2). pp. 155-179. DOI: 10.1080/15420353.2015.1035474.

Qunying Huang, Chaowei Yang, Karl Benedict, Abdelmounaam Rezgui, Jibo Xie, Jizhe Xia Songqing Chen. 2012. 'Using adaptively-coupled models and high performance computing for enabling the computability of dust storm forecasting'. *International Journal of Geographical Information Science*. 27(4):765-784. DOI:10.1080/13658816.2012.715650.

Huang, Qunying, Jizhe Xia, Manzhu Yu, Karl Benedict, and Myra Bambacus. 2013. 'Cloud-enabled Dust Storm Forecasting', in *Spatial Cloud Computing, a Practical Approach*. Chaowei Yang and Qunying Huang, eds. CRC Press. [http://dx.doi.org/10.1201/b16106-14][12]

Benedict, K. (2017). 'The Geographic Storage, Transformation and Retrieval Engine (GSToRE): A Platform for Active Data Access and Publication as a Complement to Dedicated Long-Term Preservation System'. In *Curating research data. Volume two, A handbook of current practice* (Vol. 2, pp. 207–209), Lisa R. Johnston, ed. Chicago, IL: Association of College and Research Libraries.

"Geographic Storage, Transformation and retrieval Engine Version 3". 2013. Geospatial data management, discovery and access platform and associated Application Programming Interface. Developed by the development team at the Earth Data Analysis Center at the University of New Mexico under the direction of Karl Benedict.

Selected Synergistic Experience

2012-14, 2019-2020, *President*, Earth Science Information Partners (ESIP).
2017 - Present, *Co-Chair* of the DataONE Users Group.
2015 - 2018, *Technical Advisory Committee* (Chair), Digital Preservation Network
2011 - 2014, *Member of the Data Management and Communications (DMAC) Steering Committee* of the Interagency Ocean Observation Committee (IOOC)
2010 - 2012, *Member of the National Advisory Council for Environmental Policy and Technology* for the US Environmental Protection Agency (EPA)