

# Karl Benedict

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## Professional Preparation

University of New Mexico	Albuquerque, NM	Anthropology	2004 - Ph.D. with distinction
University of New Mexico	Albuquerque, NM	Anthropology	1995 - M.A. with distinction
University of California	Berkeley, CA	Anthropology	1986 - B.A.

## Relevant Appointments

University of New Mexico	2014-Present	College of University Libraries & Learning Sciences Assoc. Professor, Director of Research Data Svc., IT <i>Subject Librarian</i> : Geography & Environmental Studies, (2015-2020), Earth & Planetary Sciences, Computer Science (2015-19), Life Sciences (2015-16)
	2014	College of University Libraries & Learning Sciences Assistant Professor, Geospatial and Env. Data Scientist
	2008-Present	Department of Geography & Environmental Studies Affiliated Faculty
	2008-2014	Earth Data Analysis Center Director
	2004-2018	Department of Anthropology. Adjunct Professor
	2001-2008	Earth Data Analysis Center Senior Research Scientist, Research Scientist, IT Manager
	2000	Office of Evaluation Project Assistant - Data Analyst
	1999-2001	Earth Data Analysis Center Project Assistant - Web Application Developer
	1994-1997	Department of Anthropology Graduate Assistant - Computer Lab Manager
	1993-1996	Computer Information Resources & Technology Help Desk Liaison
National Park Service	1999-2001	Pecos National Historic Park Data Analyst
Ebert & Associates	1994-1995	Data Analyst

## Selected Publications and Other Products

John Faundeen, George Percivall, Shirley Baros, Peter Baumann, Peter Becker, J. Behnke, **Karl Benedict**, Lucio Colaiacomo, Liping Di, Chris Doescher, ... (2020). 'Chapter 6: Archiving and Access Systems for Remote Sensing', in: *Manual of Remote Sensing*. 4th ed. Stanley A. Morain, Michael S. Renslow, and Amelia M. Budge (eds). American Society for Photogrammetry & Remote Sensing. Bethesda, MD.

Gregory, A., Chen, C., Wu, R., Miller, S., Ahmad, S., Anderson, J. W., Barrett, H., **Benedict, K.**, Cadol, D., Dascalu, S. M., Delparte, D., Fenstermaker, L., Godsey, S., Harris, F. C. J., McNamara, J. P., Tyler, S. W., Savickas, J., Sheneman, L., Stone, M., & Turner, M. A. (2020). 'Efficient Model-Data Integration for Flexible Modeling, Parameter Analysis and Visualization, and Data Management'. *Frontiers in Water*, 2. <https://doi.org/10.3389/frwa.2020.00002>

**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. Retrieved from <http://bit.ly/CRDataV2>

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](https://doi.org/10.1080/15420353.2015.1035474).

Leptoukh, G, R Kiang, R Soebiyanto, D Tong, P Ceccato, S Maxwell, R Rommel, G Jacquez, **K Benedict**, S Morain, P Yang, Q Huang, ... 2012. ‘Data Discovery, Access and Retrieval’, in *Environmental Tracking for Public Health Surveillance*. Morain and Budge, eds. CRC Press, pp. 229–291.

Watson, Richard, Louis A. Scuderi, Karl Kent Benedict, and Theresa R. Kuntz. 2004. ‘Data Fusion for Environmental Assessment: Integrating MODIS Imagery and NEXRAD Weather Radar’. International Society for Photogrammetry and Remote Sensing, 20th International Congress, Istanbul, June. *Archives* B-4:906-909

“Data Management Training Clearinghouse (DMTC)”. 2020 - in progress. Curated clearinghouse for distributed research data management training materials accessible over the web. Since 2018 I have been the PI for an Institute of Museum and Library Services grant to enhance the DMTC through developing an expanded documentation model for content in the Clearinghouse, assessment tools for the content registered in the Clearinghouse, diversification and expansion of the collection of materials in the Clearinghouse, and increasing Clearinghouse usage through outreach to the Data Librarian community. **Role: Project lead, information architect, developer**. In-progress.<https://dmtclearinghouse.esipfed.org/>

“Coffee and Code”. 2017-2018. Workshop series and presentation platform developed by Karl Benedict and Jonathan Wheeler, with contributions by Mark Servilla and Elizabeth Cooper. Workshop series accessible from the UNM Research Data Services GitHub repository - <http://github.com/unmrds>

“Geographic Storage, Transformation and retrieval Engine Version 3”. 2013. Geospatial data management, discovery and access platform and associated Application Programming Interface. Developed at the Earth Data Analysis Center at UNM under the direction of Karl Benedict. <https://web.archive.org/web/20130704202601/http://gstore.unm.edu>

“New Mexico Resource Geographic Information System”. 2002. Web application developed by Karl Benedict to provide browsing, discovery and download of geospatial data published as part of the New Mexico Resource Geographic Information System Program at the Earth Data Analysis Center at the University of New Mexico. <https://web.archive.org/web/20020913053314/http://rgis.unm.edu/>

### Synergistic Activities

- President of the *Federation of Earth Science Information Partners* - 2012-2014, 2019-2020
- Member of the Board of Directors for the *Foundation for Earth Science* - 2010-2017, 2019-2020 (Chair/President 2012-2017, 2019-2020)
- *Technical Advisory Committee* (Chair), Digital Preservation Network - 2015-2018
- *External Advisory Board Member*, US Virgin Islands NSF EPSCoR Track 1 Project - 2014-Present (Chair 2014-2019)
- *Member of the Data Management and Communications (DMAC) Steering Committee* of the Interagency Ocean Observation Committee (IOOC) - 2011-2014
- *Member of the National Advisory Council for Environmental Policy and Technology* for the US Environmental Protection Agency (EPA) - 2010-2012