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

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.

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 accessable 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