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

Products

Five Most Related Publications and Other Products

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.

"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/

Five Other Significant Publications and Other Products

Huang, Qunying, Jizhe Xia, Manzu 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. DOI:10.1201/b16106-14

Qunying Huang, Chaowei Yang, Karl Benedict, Abdelmounaam Rezgui, Jibo Xie, Jizhe Xia Songqing Chen. 2013. '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.

Leptoukh, G, R Kiang, R Soebiyanto, D Tong, P Ceccato, S Maxwell, R Rommel, G Jacquez, K Benedict, S Morain, P Yang, Q Huang, M Golden, R Chen, J Pinzon, B Zaitchik, D Irwin, S Estes, J Luvall, M Wimberly, X Xiao, K Charland, R Stumpf, Z Deng, C Tilburg, Y Liu, L McClure, and A Huff. 2012. 'Data Discovery, Access and Retrieval', in *Environmental Tracking for Public Health Surveillance*. Morain and Budge, eds. CRC Press, pp. 229–291.

Eric Fritzinger, Sergiu M. Dascalu, Daniel P. Ames, Karl Benedict, Ivan Gibbs, Michael J. McMahon, Jr., Frederick C. Harris, Jr. 2012. 'The Demeter Framework for Model and Data Interoperability'. *Proceedings of the 2012 International Congress on Environmental Modelling and Software: Managing Resources of a Limited Planet: Pathways and Visions under Uncertainty*, R Seppelt, A.A. Voinov, S. Lange, D. Bankamp (Eds.). International Environmental Modelling and Software Society (iEMSs) Sixth Biennial Meeting, Leipzig, Germany.

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

Synergistic Activities

- President of the Federation of Earth Science Information Partners 2012-2014
- Member of the Board of Directors for the Foundation for Earth Science 2010-2017 (Chair/President 2012-Present)
- Technical Advisory Committee (Chair), Digital Preservation Network 2015-Present
- External Advisory Board Member, US Virgin Islands NSF EPSCoR Track 1 Project 2014-Present
- 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