

Donna Jean Peuquet

Professional Preparation

State University of New York at Buffalo	Geography	B.A.	1968
University of Cincinnati	Geography	M.A.	1971
State University of New York at Buffalo	Geography	Ph.D.	1977

Appointments

- Professor, The Pennsylvania State University, July 1995 - present
- Associate Professor, The Pennsylvania State University, January 1986 - June 1995
- Research Assistant Professor, University of California at Santa Barbara, July 1982 - December 1985
- Geographer, Earth Resources Observation Systems Office, U. S. Geological Survey (Reston, Virginia), October 1979 - June 1982
- W.A.E. Scientist, RALI Program, U. S. Geological Survey (Reston, Virginia), April 1979 - September 1979
- Research Assistant Professor, State University of New York at Buffalo, September 1979 - October 1979
- Clinical Assistant Professor of Geography, State University of New York at Buffalo, September 1978 - August 1979
- Clinical Lecturer, Department of Geography, State University of New York at Buffalo, September 1976 - August 1978
- Research Associate, International Geographical Union, Commission on Geographical Data Sensing and Processing, January 1976 - August 1976
- Senior Planner, Department of Planning and Development, City of Niagara Falls, NY, February 1971 - September 1974

Selected Recent Publications

- Mennis, J. and D. Peuquet (2003). "The role of knowledge representation in geographic knowledge discovery: A case study." *Transactions on GIS* 7(3): 371-91.
- Guo, D., D. Peuquet and M. Gahegan (2003). "Iceage: Interactive clustering and exploration of large and high-dimensional geodata." *Geoinformatica* 7(3): 229-53.
- Peuquet, D. J. (2002). *Representations of space and time*. New York, Guilford.
- Peuquet, D. J. and M.-J. Kraak (2002). "Geobrowsing: Creative thinking & knowledge discovery using geographic visualization." *Information Visualization* 1(1): 80-91.
- Peuquet, Donna J. (2001) "Making space for time: Issues in space-time data representation," *GeoInformatica*, 5(1): 11-32.
- Mennis, Jeremy, and Donna Peuquet (2000) "A conceptual framework for incorporating cognitive principles into Geographic Information Systems," *International Journal of Geographical Information Systems*, Vol. 14, No. 6, pp. 501-520.
- Peuquet, Donna J. (1999) "Time in GIS and geographical databases" in *Geographical Information Systems: Principles and Applications* (Maguire, Goodchild, Rhind, and Longley, Eds.), 2nd edition (London: Longman), pp. 91-103.
- Peuquet, Donna J. and Liujian Qian.(1996) "An integrated database design for temporal GIS," in *Proceedings, Seventh International Symposium on Spatial Data Handling*, Delft, Netherlands, pp. 2-1 to 2-11(Also separately published by Taylor & Francis, 1997).

- Peuquet, Donna J. and Niu Duan (1995) "An event-based spatio-temporal data model for Geographic Information Systems," *International Journal of Geographical Information Systems*, 9(1):7-24.
- Peuquet, Donna J. (1994) "It's about time: A conceptual framework for the representation of temporal dynamics in geographic information systems," *Annals of the Association of American Geographers*, 84(3):441-461.

Synergistic Activities

- Awarded a John Simon Guggenheim Memorial Foundation Fellowship for July 2000-June 2001. The title of her fellowship project was; "A Cognitive Approach to Representing Geographic Knowledge." Key components of this project included cognitively-informed database and visual representation of geographic knowledge, and how this can be used for creative thinking, knowledge discovery, and analysis of large geographic databases.
- Member of a team of faculty and students within the GeoVISTA Center at Penn State that recently completed a prototype Temporal GIS that incorporates state-of-the-art Geo-Visualization technology.
- Currently a member of the Editorial Board of the *International Journal of Geographical Information Systems*, Taylor & Francis, and *International Society for Photogrammetry and Remote Sensing (ISPRS) Journal of Photogrammetry and Remote Sensing*, Elsevier.
- Lead voting Penn State representative to the University Consortium for Geographic Information Sciences (UCGIS) since participating in the formation of this organization and has served as a member of the Board of Directors (1996-1998). Also served as a member of the Research Committee (1996-1999), and was the lead person in defining the Research Initiative on Extensions to Geographic Representation. Currently a member of the UCGIS Steering Committee on GIS Education. Activities as part of this committee involve the development of a model GIS curriculum for undergraduate and graduate education that can be utilized in a modular fashion to suit the local context.
- Co-organizer (with Dr. Barry Smith, Philosophy, SUNY Buffalo) of an interdisciplinary workshop on The Ontology of Fields, sponsored by the National Consortium for Geographic Information and Analysis, held in Bar Harbor, Maine, June, 1998.

Collaborators & Other Affiliations

Collaborators -

Mark Gahegan, Alan MacEachren and Diansheng Guo, The Pennsylvania State University; Menno-Jan Kraak, International Institute for Aerospace Survey and Earth Science (ITC) (The Netherlands); Jeremy Mennis, University of Colorado; Monica Wachowicz, Wageningen University (The Netherlands); Elizabeth Wentz, Arizona State University.

Doctoral Advisor -

Duane F. Marble, The Ohio State University

Thesis Advisees over past five years-

Jeremy Mennis: Temple University; Elizabeth Wentz: Arizona State University; Liujian Qian: Oracle Corporation; Cory Eicher: Environmental Systems Research Corporation; Diansheng Guo: University of South Carolina; Chaoqing Yu: University of Maryland; Ryan Baxter, Alistair Geddes, Zhengyuan Mao, Lee Ann Nolan, Lisa Rygel, Jianwei Dou, Ritesh Agrawal: The Pennsylvania State University (Total advisees = approx 23)