

C. Dana Tomlin

tomlin.dana@verizon.net



Dana Tomlin is a Professor of Landscape Architecture and Regional Planning at the University of Pennsylvania, where he serves as Co-Director of the Cartographic Modeling Laboratory [www.cml.upenn.edu]. Tomlin also teaches at the Yale School of Forestry and Environmental Studies. His work focuses on the development and application of geographic information systems (GIS). As designer of the Map Analysis Package GIS, author of *Geographic Information Systems and Cartographic Modeling* (Prentice-Hall, 1990), and originator of the Map Algebra language embodied in most of today's image-based GIS software, Dr. Tomlin is recognized as one of the world's leading contributors to this field.

Education

1983	Yale University	Ph. D.	Forestry and Environmental Studies
1978		M.Phil.	Forestry and Environmental Studies
1975	Harvard University	M.L.A.	Landscape Architecture
1973	University of Virginia	B.S.	Landscape Architecture
1970	University of Maine	---	Forestry

Employment

1997-Present	University of Pennsylvania	Professor of Landscape Architecture and Regional Planning
1991-1997		Associate Professor of Landscape Architecture and Regional Planning
1997-Present	Yale University	Visiting Professor of Geographic Information Systems
1989-1997		Lecturer in Geographic Information Systems
1983-1994	Harvard University	Associate of the Harvard Forest
1986-1988		Associate Professor of Landscape Architecture
1983-1986		Assistant Professor of Landscape Architecture
1979-1983		Instructor in Landscape Architecture
1988-1991	Ohio State University	Associate Professor of Natural Resources
1975-Present	Private Practice	Consultant in Geographic Information Systems
1978-1981	ERT, Inc. (Lexington, MA)	Senior Environmental Planner

Selected Publications

<i>in prep.</i>	Tomlin, C.D. Modeling radial propagation in a grid.
2007	Tomlin, C.D. Prescriptive Mapping, In <i>Models as Generative Processes</i> , Princeton Architectural Press.
2006	Tomlin, C.D. Cartographic Modeling in <i>Encyclopedia of Geographic Information Science</i> . Sage.
2005	Guney, C., L. Thys-Şenocak, N. Uluğtekin, C.D. Tomlin, and R.N. Çelik. An extensible and modular historical documentation model: the "GeoHistory Portal. CIPA Symposium - Turin, Italy.
2005	Shirabe, T. and C.D. Tomlin. Accumulating motion-dependent travel costs. GIS Planet - Estoril, Portugal
2005	Mennis, J., R. Vigier, and C. D. Tomlin. Cubic map algebra functions for spatio-temporal analysis, in <i>Cartography and Geographic Information Science</i> (32)1
2003	Matero, F.G., J. Hinchman, C.D. Tomlin, and K. Song. 2003 <i>A GIS Assessment of the Great Hall Ceiling at Drayton Hall, Charleston</i> in Journal of Preservation Technology, Vo. XXXIV, No. 2-3.
2002	Shirabe, T. and C.D. Tomlin. 2002. <i>Decomposing Integer Programming Models for Spatial Allocation</i> in Proceedings of the 2nd International GIScience Conference, M.J. Egenhofer and D.M. Mark eds.,
2000	Gill, S.E., J.L. Scholz,, R.A. Bloom, and C.D. Tomlin. \Using the Internet to train environmental professionals in Proceedings of the National Association of Environmental Professionals.
1994	Tomlin, C.D. <i>Map Algebra: One Perspective</i> in Journal of Landscape and Urban Planning, Vo. 30.
1990	Tomlin, C.D. <i>Geographic information systems and cartographic modeling</i> . Prentice-Hall.

Recent Research

2007	The Historic Landscape of Ahkdamar Island in Southeastern Turkey (as principal investigator) funded by the PennDesign Traveling Studio Fund
2006	Modeling Urban Environmental Impacts on Health, Development, and Behavior (as co-principal investigator) funded by the Penn Institute for Urban Research
2005	Urban Heat Island Morbidity in Philadelphia (as co-principal investigator) funded by the Robert Wood Johnson Health & Society Program
2004	Integrating CAD and GIS Functionality (as principal investigator) funded by the Bentley Education Network
2003	Rivers, Roads, and People: Complex Interactions of Overlapping Networks in Watersheds (as co-principal investigator) funded by the U.S. National Science Foundation