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Summary: I help institutions and individuals to organize, understand, and share information about places; to understand how places work in their context; so that groups of people can more effectively collaborate and communicate to make more informed decisions and appreciate the quality of places as they change or may be changed. I have trademarked a short phrase that captures this mission: **cultivating spatial intelligence**.

Education:

1993 **Master of City Planning, Massachusetts Institute of Technology:**
 Concentration: Planning Support Systems.
 1984 **Bachelor of Arts, Indiana University:** Geography major, Cartography specialization, Certificate in Urban Studies.

Professional Experience:

2007 - Present **Principal Consultant**
 Paul B. Cote Geographic Information Services
 2013 - Present **Lecturer**
 Boston Architectural College
 2014 - Present **Lecturer**
 Friedman School of Nutrition Science and Policy
 1993 - 2013 **Geographic Information Systems Specialist**
 Harvard University Graduate School of Design
 1996 - 2012 **Lecturer, Urban Planning and Design**
 Harvard University Graduate School of Design
 1999 - 2010 **Lecturer, Landscape Architecture**
 Harvard University Graduate School of Design
 1989 - 1991 **Cartographic Supervisor**
 HM Gousha Company, Comfort, Texas
 1985 - 1989 **Cartographic Technician**
 Rand McNally / Continental Map, Austin, Texas
 1984 - 1985 **Land Survey Instrument Man**
 Accutex Survey Systems, Austin, Texas

Affiliations, Activities and Honors:

2006 - Present **Consultant:** As founding principal, have consulted internationally on the development of enterprise-scale three dimensional models of cities.
 2008 - Present **Board of Review:** Norman B. Leventhal Map Center at the Boston Public Library. I head the Information Technology Subcommittee, leading the design and implementation of web-based portal for historic maps.
 2008-2015 **Collaboration with Dumbarton Oaks Center for Landscape Studies:** As a summer project, I supervise the summer GIS interns at Dumbarton Oaks, a 15 acre garden and research center that is part of Harvard. We have developed a data model for managing information on the actual and proposed terrain and plantings over time. In the summer of 2012, I established web-based GIS and Image repository to support collaborative research.

- 2013 - Present **Research Affiliate: Harvard Center for Geographic Analysis.**
- 2013 - Present **Editorial Committee Member:** Journal of Map and Geography Libraries
- 2008 - Present **Editorial Committee Member:** Journal of Urban and Regional Information Systems Association.
- 2005 - 2013 **Technical Steering Committee Member:** Harvard Center for Geographic Analysis.
- 2000 - 2012 **Steering Committee Member:** Harvard Geospatial Library.
- 2007 - 2009 **Community Advisory Committee Member:** Massachusetts Executive Office of Transportation Green Line Extension Impact Study
- 2009 **Community Negotiation Team Member:** Represented East Cambridge neighborhood in a 3 month negotiation process hosted by Cambridge Mayor David Maher.
- 2009 **Best Teacher:** Awarded by Students in the Department of Urban Planning and Design, Harvard University Graduate School of Design.
- 2006 - 2007 **Thread Architect:** Open Geospatial Consortium initiative to develop Open Web Services for CAD, GIS and Building Information Models.
- 1999 - 2001 **Advisory Board Member:** Boston Children and Families Database.

Book Chapters, Magazine Articles, Peer Reviewed Publications:

- 2016 [Information Stewardship for Cultural Heritage Preservation: Tools, Standards, Strategies](#) Funded by U.S. State Department
- 2008 Lapiere, A. and P. Cote, **Using Open Web Services for urban data management: A testbed resulting from an OGC initiative for offering standard CAD/GIS/BIM services** in Geospatial information technology for emergency response (ISPRS book series). Taylor & Francis Group, London, UK
- 2009 Paul Cote, **Where Are Samson and Goliath? 3D Experiments with the Belfast Skyline** Geo World Magazine May, 2009.
- 2007 Paul Cote, editor **Web Services Architecture for CAD GIS and BIM.** Open Geospatial Consortium Interoperability Program Report, Official OGC Discussion Paper 07_r23_02.
- 1996 **Alternative Futures for Camp Pendleton, California**, with Carl Steinitz and others, Published by Harvard GSD Press.

Technical Proficiencies:

Geographic Information Systems: ArcGIS, QGIS, Extensive experience creating reusable models with Model Builder and Python.

Research and Analytics: Extensive understanding of geospatial and architectural data sources and analytic techniques and cartography for a variety of demographic, infrastructural and ecological applications.

Teaching: 19 years of experience developing and delivering courses at the Harvard University Graduate School of Design.

Three Dimensional Modeling: Expert in Sketchup and Terrain modeling with Rhinoceros 3D. Develop plugins with Sketchup Ruby.

Field work and Data Collection: Experienced with Plane Surveying, and GPS data collection techniques.

Graphical Presentation: 30 years experience as a professional cartographer; Adobe Creative Suite

Enterprise Spatial Data Infrastructure: Oracle, MS SQL, Omeka

Web Based Services and Applications: Apache, GeoServer, HTML Javascript, OpenLayers, XML, Omeka Neatline.

System Administration: Linux, cloud-based system administration.

Remote Sensing: Experience with processing and classifying multispectral imagery with MultiSpec and Erdas Imagine.

Grants and Funded Research:

- 2011 **Archiving Spatial Data Resources for the Comparative Analysis of Cities**
Real Estate Academic Initiative
- 2008 - 2011 **Data Model for a Managed Landscape**
Dumbarton Oaks, Washington D.C.
- 2006 **Three-Dimensional Modeling Infrastructure for Town of Brookline Massachusetts.** Funded by Town of Brookline GIS Department
- 2004 **Cross-Curricular Modules for Teaching Site Representation at the Harvard Design School,** Funded by Harvard University Provost's Office.
- 2003 **Tools for Discovering the Topology of Segregation,** with Guy Stuart of the Kennedy School of Government.
- 2002 **Feasibility Study for a Commonwealth-wide Inventory of Underutilized or Contaminated Sites,** Funded by Massachusetts Governor's Office for Brownfield Revitalization.
- 2000 **Investigation of Technologies for Maintaining Large Three Dimensional Models of Cities,** Funded by the Boston Redevelopment Authority, 2000.

Selected Research, Conference Papers and Invited Lectures:

- Ongoing **[The GIS Manual: Cultivating Spatial Intelligence](#)**
Web-Based Curriculum in GIS and Three-Dimensional Site Modeling.
- 2015 **Simple Architecture for A Living 3D Model of the Metropolis:** Geodesign Summit, ESRI, Redlands, California
- 2013 **pbcbuildout A Free Sketchup Plugin for Evaluating Capacities and Impacts of Urban Design Scenarios.** National Conference of the Urban and Regional Information Systems Association.
- 2012 **Information Ecology in Place-Based Studies,** McKinsey & Company North American Knowledge Center.
- 2011 **Promoting a Culture of Information Stewardship at the Graduate School of Design,** First Harvard Information Technology Summit.
- 2010 **Introducing CityGML: Interoperability for GeoDesign**
First Conference on GeoDesign, Redlands California.
- 2010 **New Media for Public Participation in Urban Design and Planning**
National Organization of Minority Architects, Boston, Massachusetts
- 2010 **City of BIM,** Lecture presented to Michel Schroeder's course on Building Information Models.
- 2009 **Interoperability in City Models and Urban Studies,** Invited Speaker, European Cooperation in Science and Technology, Liege, Belgium.
- 2009 **City Models of the Future and the Past,** Geoweb Conference, Vancouver, British Columbia.
- 2009 **Working toward the Future of Integrated City Models: Toward Administrative Modularization,** 3D Summit, Open Geospatial Consortium Technical Committee Meeting, Cambridge, Massachusetts.
- 2009 **New Media and Community Planning,** Harvard University Symposium on New Media and Community Planning.

- 2008 **An Urban Design Laboratory for Belfast, Northern Ireland**, University of Ulster Department School of Architecture and Design. With Richard Sommer.
- 2008 **Promoting a Culture of Information Stewardship at the Harvard Design School**, 2nd Annual Symposium on Spatial Analysis, Harvard Center for Geographic Analysis.
- 2008 **A Data Model for Representing Cities in Three Dimensions**, ESRI User Conference, San Diego, California.
- 2008 **Integrating Building Information Models with Geospatial Information Infrastructure**, Joint Services Environmental Management Conference, Columbus, Ohio.
- 2007 **The Road Ahead for Metropolitan-Scale Three Dimensional Models**, Presented at the National Conference of the Urban and Regional Information Systems Association.
- 2007 **Geographic Information Systems and BIM: Interoperability for Modeling Cities**, Presented at the National Conference of the Association of American Architects.
- 2006 **Two Perspectives on Evolution of 3d City Models: Pragmatic and Principled**, Invited lecture Bonn University Department of Geodesy and Geoinformatics.
- 2006 **Understanding Threatened Urban View Corridors with LIDAR Data**, Presented at the 2006 ESRI International User Conference.
- 2005 **Rendering Multiple Urban Design Scenarios from a Single Database of 3D Features**, Proceedings of the Ninth International Conference on Computers in Urban Planning.
- 2004 **Three-Tiered Approach to Supporting Geographic Information Systems at the Harvard Design School**, Proceedings of the 24th Annual Conference of the Environmental Systems Research Institute.
- 2003 **Data Models for Three-Dimensional Cities**, Presented to the Massachusetts Geographic Information Council.
- 2002 **Real Infrastructure for Virtual Cities**, Proceedings of the 22nd Annual Conference of the Environmental Systems Research Institute.
- 1999 **MCP: A Metadata Collection Parser for Geospatial Metadata**, Delivered at the 19th Annual Conference of the Environmental Systems Research Institute.
- 1996 **Strategy for Managing Geographic Analysis and Cartography In a Major Ecological Research Project**, Delivered at the 16th Annual Conference of the Environmental Systems Research Institute.
- 1995 **Improved Method for Selection of Shade symbols for use with Synthetic Relief**, poster presentation, 15th Annual Conference of the Environmental Systems Research Institute, July.
- 1992 **Fighting Urban Traffic Congestion with Exploratory Data Analysis**, Published in ArcInfo Map Book Volume 5, ESRI Press.