

CURRICULUM VITAE

MICHAEL J. SHIFFER

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EXECUTIVE SUMMARY

Dr. Shiffer is a Clinical Associate Professor of Urban Planning and Policy at the University of Illinois at Chicago (UIC). He was formerly Vice President for Planning and Development at the Chicago Transit Authority (CTA). For over six years at the CTA, Shiffer led the strategic and operations planning efforts of the second largest public transit system in the United States. During his time at the CTA, ridership grew by nearly 40,000 trips per average weekday, with much of the growth on new and improved routes. He has spearheaded a collaboration between CTA, MIT, and UIC that has served as a nationwide model of collaborative research and human capital development in the transit industry. Before moving to CTA, Shiffer was a tenured Associate Professor of Urban Planning and Policy at UIC. His academic research has focused on how information technologies can better inform deliberation, decision-making and public debate with a focus on spatial (geographic) information. Prior to joining UIC, Shiffer served for nine years on the MIT faculty where he was Principal Research Scientist and a Lecturer in the Department of Urban Studies and Planning. There, he directed the Urban Planning Computer Research Lab and researched how new technologies (such as GIS, wide-area networking and new models of multimedia) could inform planning processes. While at MIT, Shiffer also taught courses related to mass transit and urban planning methods. Shiffer received a Ph.D. in Regional Planning and Master's of Urban Planning from the University of Illinois at Urbana-Champaign. Shiffer has a B.A. in Geography from DePaul University. Shiffer remains an active world-wide professional speaker on topics related to urban mass transit and emerging information technologies for urban and transportation planning.

EDUCATION

- Ph.D. Regional Planning, University of Illinois at Urbana-Champaign, (December, 1991).
Dissertation: *A Hypermedia Decision Support System to Aid Small Group Planning and Decision Making*.
- M.U.P. Urban Planning, University of Illinois at Urbana-Champaign, (December, 1987).
Master's Project: *The Impact of Society Upon Urban Rail Transit*.
- B.A. Geography, De Paul University, Chicago, Illinois, (May, 1985).
Concentration: *Urban Geography & Transportation*.

ACADEMIC AND PROFESSIONAL EXPERIENCE

Clinical Associate Professor, Urban Planning and Policy, University of Illinois at Chicago, College of Urban Planning and Public Affairs, (February, 2004-Present).

Teach graduate level courses in public transportation, analytic methods and emerging technologies for planning and decision support. Active professional speaker on the application of information technology in the area of city planning and development.

Vice President, Planning & Development, Chicago Transit Authority, (October, 2001-October, 2007).

Led the overall strategic and operations planning efforts of the second largest public transit system in the U.S., including strategic planning, facilities development, service planning, schedules and data services.

Responsible for a staff of approximately 70 planners, architects, engineers and other transit professionals, many of which were recruited from top tier universities and the broader transportation industry (including airlines and international consultancies).

Guided the development of an industry leading data-based planning support system that was key to the implementation of a systematic approach to service planning.

Facilitated service improvements that led a sustained period of ridership growth of nearly 40,000 average weekday trips since 2001, including restructuring of services in CTA's busiest corridors.

Oversaw and contributed to future rail system expansion plans for the Chicago region.

Developed a systematic way using spatial multimedia to convey the Chicago Transit Authority's six new proposals for FTA's "New Starts" Program to the general public, key stakeholders and elected representatives.

Responsible for the allocation of over \$930 million in annual operating resources through bus and rail service.

Oversaw a bus schedule efficiency review that saved the Chicago Transit Authority \$5 million in operating costs by better matching schedules to actual measured running times in the field.

Developed fare adjustment proposals that successfully increased revenue and electronic fare media usage while allowing CTA to maintain annual ridership growth.

Associate Professor, (with tenure), Urban Planning and Policy, Director of the Great Cities Urban Data Visualization Program, University of Illinois at Chicago, College of Urban Planning and Public Affairs, (January, 2001- February, 2004).

Taught courses and advised students on subjects related to information technology for urban planning and urban mass transportation. Directed a research facility for UIC's College of Urban Planning and Public Affairs that involved management of personnel, technologies and other resources to support ongoing investigations of spatial information technologies for planning and decision support.

Director, Computer Resource Labs, Massachusetts Institute of Technology, Department of Urban Studies and Planning, (July, 1996- December, 2000).

Directed a research and teaching facility for MIT's Department of Urban Studies and Planning that involved management of personnel, technologies and other resources to support ongoing investigations of spatial information technologies for planning and decision support.

Principal Research Scientist & Lecturer, Massachusetts Institute of Technology, Department of Urban Studies and Planning, (September, 1993- December, 2000).

Conducted and coordinated research investigating the impact of emerging technologies on public debate and decision-making processes for several sponsoring agencies.

Taught courses related to computer-based analysis for public management, planning support systems, new technologies for decision support and urban mass transportation.

Academic and/or thesis advisor for Masters and Doctoral level students in Urban Studies and Planning with an interest in planning support systems or public transportation.

Advisor to undergraduate students and the leader of an "MIT Freshman Seminar".

Postdoctoral Associate, Massachusetts Institute of Technology, Department of Urban Studies and Planning, (January, 1992- August, 1993).

Conducted research on planning support systems for the U.S. Department of Transportation, the National Capital Planning Commission, and the U.S. Army Environmental Policy Institute.

Taught course entitled "Planning Applications of Multimedia Technologies".

Co-taught course entitled "Computer-Based Analysis for Public Policy" with Professor Joseph Ferreira Jr.

COURSES TAUGHT

Urban Public Transportation
Rail Operations
GIS & Spatial Analytic Methods
Emerging Technologies for Planning and Decision Support
Multimedia Authoring
Urban Transportation History

PUBLICATIONS AND PAPERS

Shiffer, M.J. (2005) Book Review of "Transport of Delight: The Mythical Conception of Rail Transit in Los Angeles" in *Journal of Planning Education and Research*, 12; vol. 25: pp. 221 - 222.

Shiffer, Michael, Arnab Chakraborty, Beth Donahue, Graham Garfield, Ramakrishnan Srinivasan and Sue McNeil, (2003) "Spatial multimedia representation of Chicago Transit Authority rail infrastructure." *Transportation Research Record*. (1838),1-10.

Shiffer, M. J. (2002) "Community Participation with Multimedia" in: Craig et al. (eds.) *Community Participation and Geographic Information Systems*. (London: Taylor & Francis).

Shiffer, M.J., (2001) "Spatial Multimedia for Planning Support" in: Brail & Klosterman (eds.) *Planning Support Systems*. (Redlands, CA: ESRI Press).

Shiffer, M.J. (1999) "Managing Public Discourse: Towards the Augmentation of GIS," in Longley, et al. (eds.), *Geographical Information Systems*, (New York: Wiley).

Shiffer, M.J. (1999) "Planning Support Systems for Low-Income Communities," in Schon, et al. (eds.), *High Technology and Low-Income Communities*, (Cambridge, MA: MIT Press).

Shiffer, M.J., (1999) "Augmenting Transportation-Related Environmental Review Activities Using Distributed Multimedia," in A.S. Camara and J. Raper, eds., *Spatial Multimedia and Virtual Reality*. London: Taylor & Francis.

Shiffer, M. J. (1998) "Multimedia GIS for Planning Support and Public Discourse" *Cartography and geographic information systems*. 25 (2).

Shiffer, M.J. (1995) "Multimedia in der Stadtplanung," *Garten & Landschaft*, 11, pp. 18-22.

Shiffer, M.J. (1995) "Interactive Multimedia Planning Support: Moving from Stand-Alone Systems to the World Wide Web," *Environment and Planning B: Planning and Design*, volume 22, pp. 649-664.

Shiffer, M.J. (1995) "Geographic Interaction in the City Planning Context: Beyond the Multimedia Prototype," in Nyerges, et al. (ed), Cognitive Aspects of Human-Computer Interaction for Geographic Information Systems, (Dordrecht, The Netherlands: Kluwer Academic Publishers), pp. 295-310.

Shiffer, M.J. (1995) "Environmental Review with Hypermedia Systems," Environment and Planning B: Planning and Design, volume 22, pp. 359-372.

Shiffer, M.J., (1995) "Multimedia Representational Aids in Urban Planning Support Systems," in Marchese, F. (ed.), Understanding Images, (New York: Springer-Verlag), pp.77-90.

Shiffer, M.J., (1994) "A Geographically-Based Multimedia Approach to City Planning," in Plaisant, C. (ed.), Human Factors in Computing Systems, (New York: Association for Computing Machinery), pp.265-266.

Shiffer, M.J. (1993) "Augmenting Geographic Information with Collaborative Multimedia Technologies," in R.B. McMaster and M.P. Armstrong (eds.), Proceedings of Auto Carto 11, American Society for Photogrammetry and Remote Sensing, American Congress on Surveying and Mapping, pp. 367-376.

Shiffer, M.J. and Wiggins, L.L., (1993) "The Union of GIS and Multimedia," in Castle, G.H. (ed.), Profiting from a Geographic Information System, (Ft. Collins, CO: GIS World, Inc.), pp. 336-341.

Shiffer, M.J. (1992) "Towards a Collaborative Planning System," Environment and Planning B: Planning and Design, volume 19, pp. 709-722.

Shiffer, M. J. (1992) "Representation of Environmental Conditions in Planning Support Systems," Paper presented at the Association of Collegiate Schools of Planning Annual Conference, Columbus, Ohio, October, 1992.

Shiffer, M. J. (1992) "Collaborative Systems for Transportation Planning," Citizen Participation, volume 2, number 2, December, 1992. pp. 2-4.

Shiffer, M. J. (1992) "New Directions: Collaborative Planning Systems," Micro Software News: Newsletter of the International City Managers' Association, May, 1992.

Shiffer, M. J. (1992) A Hypermedia Implementation of a Collaborative Planning System, Ph.D. Dissertation, University of Illinois, Urbana, January, 1992.

Shiffer, M. J. (1991) "Hypermedia Collaborative Planning Systems," Proceedings of the Urban and Regional Information Systems Association 29th Annual Conference, San Francisco, California, August, 1991.

Shiffer, M. J. (1991) "Towards a Collaborative Planning System," Proceedings of the Second International Conference on Computers in Urban Planning and Urban Management, Oxford, U.K., July, 1991.

Wiggins, L. L. and Shiffer, M. J. (1990), "Planning with Hypermedia: Combining Text, Graphics, Sound, and Video," Journal of the American Planning Association, 56 226-235.

Shiffer, M. J. (1988), "Hypermedia Allows Non-sequential Cross Referencing," Planning News: American Planning Association Illinois Newsletter, Spring, 1988.

INVITED PAPERS AND PRESENTATIONS

China Planning Network, Urban Transportation Congress, "Technological Change and the Impact of Public Transit on the Development of Chicago," Beijing, China, (August, 2007).

Ajman Urban Planning Conference, "Emerging Technologies and Public Transport Planning," Ajman, United Arab Emirates, (February, 2007).

Keynote Address: Hawaii Congress of Planning Officials, Pacific Geospatial Conference, Honolulu, HI, (October, 2006).

China Planning Network, Urban Development and Planning in China, Beijing, China, (June, 2006).

MIT, Center for Transportation Logistics Distinguished Speaker Series, Cambridge, MA, (October, 2004).

New York City Transit Authority, Professional Seminar, "Applications of Information Technology for Planning," Brooklyn, NY, (April, 2004).

Keynote Address: Urban and Regional Information Systems Association 41st Annual Conference, Atlanta, Georgia, "Reshaping Mass Transit with Technology," (October, 2003).

Transport for London, Seminar Series, "Rethinking Planning in Chicago," London, UK, (July, 2003).

Portland State University, Center for Transportation Studies Speaker Series, "New Technology Applications for Transit," Portland, OR, (April, 2003).

Keynote Address: "The Future of Chicago's Transit". Minnesota Transportation Annual Research Conference, St. Paul, MN, (April, 2003).

University of Wisconsin-Milwaukee, School of Architecture an Urban Planning Seminar, Milwaukee, WI, (February, 2003).

University College London, Rothermel Thomas Lecture, "An E-Fare to Remember: Lessons for the Underground - how technology can improve public transport in London" London, UK, (April, 2002).

Keynote Address: Politecnico di Milano, "E-Government Symposium for Northern Italy," Milan, Italy, (July, 2001).

Harvard University, "Architecture and the Internet: Issues and Opportunities" Seminar, Cambridge, MA, (June, 2001).

Keynote Address: International Conference on Decision Making in Urban Civil Engineering, Lyon, France, (November, 2000).

Arizona State University, Symposium on Integrated Urban Environmental Modeling, Tempe, AZ, (October, 2000).

Northeastern University, "Planning Support Systems for Civil Engineering" Seminar, Boston, MA, (October, 2000).

Harvard University, (Graduate School of Design), Seminar on Communication and Design with the Internet Cambridge, MA, (August, 2000).

Boston University, Spoke on Modal Characteristics of Urban Mass Transit for Nigerian Transit Professionals, Boston, MA, (July, 2000).

International Environmental Technology Expo, Atlantic City, NJ, (June, 2000).

Workshop on Urban Visualization, Rutgers University, New Brunswick, NJ, (December, 1999).

International Conference on Public Participation and Information Technologies, Lisbon, Portugal, (October, 1999).

University of Pennsylvania, Department of City and Regional Planning. Planning Seminar, Philadelphia, PA, (October, 1999).

The World Bank, "Wiring the Barrio" Symposium, Washington, D.C., (June, 1999).

University of Illinois at Chicago, College of Urban Planning and Public Affairs, presented seminar on "Multimedia for Spatial Analysis and Transportation Applications, Chicago, IL, (May, 1999).

Keynote Address: Mid-Atlantic GIS Symposium, New Brunswick, NJ, (March, 1999).

Rutgers University, "Visualization and Modeling with Planning Support Systems," New Brunswick, NJ, (March, 1999).

Harvard University, University-Wide GIS Colloquium, Invited Guest Speaker, Cambridge, MA, (February, 1999).

University of Pennsylvania, Department of City and Regional Planning, Invited Guest Speaker, Philadelphia, PA, (October, 1998).

Chinese Academy of Sciences, "GIS for Urban Planning in the United States," Beijing, China, (July, 1998)

International Conference on Modeling Geographical and Environmental Systems with Geographical Information Systems, (GIS), Hong Kong, (June, 1998)

Keynote Address: Mid-America GIS Symposium, Lincoln, NE, (May, 1998)

Politecnico of Milan. Video link address on the subject of: " Landscape Design in the Networked Society," Milan, Italy, (April, 1998).

Keynote Address: Hellenic GIS Conference, Athens, Greece, (November, 1997).

Keynote Address: European GIS User's Conference, Copenhagen, Denmark, (October, 1997).

The Royal Academy of Fine Art and The Royal Veterinary and Agricultural University of Denmark Invited Guest Speaker, Copenhagen, Denmark, (September, 1997).

Aalborg University, Invited Guest Speaker, Aalborg, Denmark, (September, 1997).

University of Colorado, College of Architecture and Planning Faculty Retreat, Featured Guest Speaker, Boulder, CO, (August, 1997).

Keynote Address: Socio-Economic Impacts of New Geographic Information Handling Technologies, European Science Foundation Invited Lecture Castelvechio Pascoli, Italy, (May, 1997).

Keynote Address: GISRUUK: Geographical Information Systems Research in the UK, (Leeds, UK April, 1997).

Mid-Atlantic States GIS Conference, Rutgers University, New Brunswick, NJ, Invited Guest Speaker, (March, 1997)

Cambridge Community Television "Using Technology to Build Community" Cambridge, MA, (January, 1997).

Keynote Address: Northwest Arc Users Conference, Portland, OR, (October, 1996).

Keynote Address: Geomatics Atlantic Conference: Fredericton, New Brunswick, Canada, (October, 1996).

NCGIA Public Participation GIS Workshop, Orono, ME, (July,1996).

University of Cagliari, "International Symposium on Ethics and Spatial Planning," Cagliari, Sardinia, Italy, (May, 1996).

Polytechnic of Bari, Invited presentation at conference on "Environmental Sustainability: Urban and Regional Approaches," Bari, Italy, (May, 1996).

MIT, Invited lecture on "Community-Building Communications Technologies and Decision Support Systems" for Advanced Information Technologies, Low-Income Communities & the City Colloquium, Cambridge, MA, (March, 1996).

First Conference on Multimedia and Spatial Virtual Reality, "Augmenting Transportation-Related Environmental Review Activities Using Distributed Multimedia" Lisbon, Portugal, (October, 1995).

University of California at Santa Barbara, Invited participation in National Center for Geographic Information and Analysis (NCGIA) Initiative 17 specialist meeting on : "Collaborative Spatial Decision-Making," Santa Barbara, CA, (September, 1995).

Keynote Address: Annual Conference of ESRI Geographic Information System Users, Palm Springs, CA, (May, 1995).

Third Annual Pennsylvania Geographic Information Systems Conference, "Emerging Technologies and GIS," State College, PA, (May, 1995).

Keynote Address: "Deutsche GIS Anwenderkonferenz," (German GIS User's Conference), Munich, Germany, (March, 1995).

New England Association of Regional Councils Conference, "Multimedia Planning Support Systems: Moving from Stand-Alone to Distributed Systems," Falmouth, MA, (October, 1994).

New University of Lisbon, Invited seminar titled: "Multimedia Geographical Information Systems" in series on Environmental Sciences and Engineering Lisbon, Portugal, (October, 1994).

European Science Foundation, Participated in specialist meeting on GIS and multimedia standards research for the GISDATA initiative, Rostock, Germany, (May, 1994).

Keynote Address: IMAGIN forum on Data Sharing amongst agencies and municipalities in the State of Michigan, Lansing, MI, (May, 1994).

Rutgers University, Gave a guest lecture on Multimedia Planning Support Systems, New Brunswick, NJ, (April, 1994).

University of Iowa, Transportation and Geographic Information, University of Iowa Geography Department, Iowa City, IA, (April, 1994).

NATO Working Group, GIS and human-computer interaction, Mallorca, Spain, (March, 1994).

University of Minnesota, Gave invited seminar as part of lecture series on Geographic Visualization sponsored by the University of Minnesota Geography Department, Minneapolis, MN, (March, 1994).

Harvard University, Graduate School of Design, Invited presentation on “Interactive Multimedia Technologies for Planning and Design,” Cambridge, MA, (November, 1992).

Federal Highway Administration Environmental Workshop, “Technological Advances in Highway Planning Information Systems,” Washington, D.C., (October, 1992).

U.S. Department of Transportation, Invited presentation to the Deputy Secretary and the senior management of the DOT on “Technological Advances in Administrative Decision Support,” Washington, D.C., (October, 1992).

Mid-America GIS Symposium, “Technical Innovations in GIS,” Kansas City, MO, (May, 1992).

Chicago Transit Authority, New Information Systems to Aid Transit Planning,” Chicago, IL, (January, 1992).

Great Lakes Universities Public Service Organization, “Simulation of Chanute Air Force Base Noise Scenarios,” Chicago, IL, (June, 1991).

University of Illinois at Chicago, “Hypermedia as a Teaching and Research Aid for Planning,” Chicago, IL, (January, 1991).

Midwest Institute on Planning and Zoning, “Hyperplans! Combining Maps, Stats, Video, Sound, Text, and Animation,” St. Charles, IL, (April, 1990).

American Planning Association, Four Corners Regional Conference, “Interactive Information Systems for Small Towns,” Durango, CO, (July, 1989).

PRESENTATIONS AT PROFESSIONAL CONFERENCES

American Association of Geographers, “Spatial Multimedia and Transit Planning,” Chicago, IL, (March, 2006).

Women’s Transportation Seminar, Boston. Presented session on “Rethinking Mass Transit in Chicago,” Boston, MA, (May, 2003).

Transportation Research Board Annual Conference, “A Circumferential Rail Proposal for Chicago,” Washington, D.C., (January, 2003).

American Planning Association National Conference, "Computer Visualization for Improved Decision Making," Seattle, WA, (April, 1999).

American Association of Geographers, "Use of Spatial Multimedia to Support Public Discourse," Boston, MA, (March, 1998).

Massachusetts Municipal Association, "Creating Your Own Community Web Site," Boston, MA, (January, 1997).

Association of Collegiate Schools of Planning Conference, "Using Technology to Characterize Communities," Toronto, Canada, (July, 1996).

SIGCHI, Association for Computing Machinery's Meeting on Human-Computer Interaction, "Interactive City Planning Using Multimedia Representation Aids," Boston, MA, (May, 1995).

The 21st Annual Celebration at MIT of Dr. Martin Luther King, Jr. "Youth and the New Technology: Getting On-Line," Cambridge, MA, (February, 1995).

Association of Collegiate Schools of Planning Conference, Computer Users Group Annual Meeting, "Evaluating the Impacts of New and Developing Technologies upon Planning Processes," Tempe, AZ, (November, 1994).

Association of Collegiate Schools of Planning Conference, "Information on the World Wide Web: Implications for Planning," Tempe, AZ, (November, 1994).

Annual Conference of the National Trust for Historic Preservation, Presented: "Technological Representations of Urban Environments: Implications for Historic Preservation," Boston, MA, (October, 1994).

Urban and Regional Information Systems Association 32th Annual Conference, "Exploiting the Net Interactively," Milwaukee, WI, (August, 1994).

Urban and Regional Information Systems Association 32th Annual Conference, "Using Multimedia in Air Rights Analyses of Union Station in Washington, D.C.," Milwaukee, WI, (August, 1994).

MIT Community Fellows New Technologies Workshop: Gaining Access to the Information Highway, "Collaborative Planning Tools Using Multimedia and the Internet," Cambridge, MA, (July, 1994).

SIGCHI, Association for Computing Machinery's Meeting on Human-Computer Interaction, Presented "A Geographically-Based Multimedia Approach to City Planning," Boston, MA, (April, 1994).

Auto-Carto 11 Meeting of the American Society for Photogrammetry and Remote Sensing, Presented "Augmenting Geographic Information with Collaborative Multimedia Technologies," Minneapolis, MN, (October, 1993).

Urban and Regional Information Systems Association 31th Annual Conference, "Implementing Multimedia Collaborative Planning Technologies: An Interactive Kiosk for St. Louis," Atlanta, GA, (August, 1993).

Third International Conference on Computers in Urban Planning and Urban Management, Presented "Environmental Review with Hypermedia Systems," Atlanta, GA, (August, 1993).

American Planning Association National Conference, "Digital Video Manipulation for Visual Analysis and Planning," Chicago, IL, (April, 1993).

American Planning Association National Conference, "City Planning and Multimedia Telecommunications," Chicago, IL, (April, 1993).

Transportation Research Board (TRB) Annual Meeting, "New Technologies to Enhance Citizen Participation in Transportation-Related Issues," Citizen Participation in Transportation Committee of the TRB, Washington, D.C., (January, 1993).

Association of Collegiate Schools of Planning Conference, Computer Users Group Annual Meeting, "The National Capital Planning Commission Implementation of a Collaborative Planning System," Columbus, OH, (October, 1992).

Second International Conference on Computers in Urban Planning and Urban Management, "Microcomputer-Based Hypermedia Systems for Urban Planning & Problem Solving," Oxford, UK, (July, 1991).

Association of Collegiate Schools of Planning Conference, Computer Users Group Annual Meeting, "St. Louis Riverfront Planning with Hypermedia," Austin, TX, (October, 1990).

Association of Collegiate Schools of Planning Conference, Mini-Conference on Undergraduate Planning Education, "New Technologies to aid Planning Education: The Planning Consultant Game," Austin, TX, (October, 1990).

American Planning Association National Conference, "Gee-Whiz 1990: The St. Louis Riverfront Hypermedia System," Denver, CO, (April, 1990).

American Planning Association, National Conference, "New-Wave Technologies: Putting the 'Gee-Whiz' to Work," Atlanta, GA, (May, 1989).

University of Illinois, Department of Urban and Regional Planning Colloquium, "Public Perceptions of Rail Transit," Urbana, IL, (November, 1987).

RELEVANT ACADEMIC & PROFESSIONAL RESEARCH GRANTS AND CONTRACTS

U. S. Federal Transit Administration, Job Access Reverse Commute Grants under the Chicago Transit Authority (allocated 2002-2006).

Worked with CTA staff to develop various service plans that better link traffic generators with mass transit services specifically aimed at enhancing reverse commute options for Chicago-area commuters. Some examples included expanded hours on rapid transit lines, complemented by connecting bus services to major employers. Also special bus lines to suburban employment facilities were developed and funded.

U. S. Federal Transit Administration, Congestion Mitigation Air Quality Grants under the Chicago Transit Authority, (allocated 2002-2006).

Worked with CTA staff to develop various service plans that offered new mass transit-oriented commuting options for Chicago-area commuters who would otherwise use the automobile for travel to work. Some examples included limited stop express bus routes along major arterials and a re-design of Chicago's Lake Shore Express bus services on the North and South sides of the city to provide more 'single seat' options for travel to downtown from outlying areas.

"Tren Urbano" Rapid Transit Development Program, San Juan, Puerto Rico, 1999, (Partner with MIT Civil & Environmental Engineering Department).

Developed a multimedia information clearinghouse to support technology transfer activities between academic researchers, professionals and government officials surrounding the planning, construction and initial operation of a rail rapid transit system in San Juan, Puerto Rico.

U. S. Federal Transit Administration, 1997, (Sole Investigator).

Funding for the development of a multimedia CD-ROM that conveys environmental and operational aspects of various urban transit modes to planning and transit agencies for the support of transit-related activities and conversations.

National Association of Regional Councils, 1996, (Sole Investigator).

Funding for the investigation of institutionalization issues surrounding the adoption of computer-aided technologies and tools used in decision-making and presentation in metropolitan planning organizations.

United States Department of Transportation, Bureau of Transportation Statistics, 1995, (Sole Investigator).

Funding for the investigation of how to deliver effective visual representations of automobile traffic for traffic planning purposes. Also, funding for an investigation of how

to structure information related to the operational and environmental characteristics of urban transit vehicles and operating environments.

United States Department of Transportation, Bureau of Transportation Statistics, 1994,
(Sole Investigator).

Funding for the investigation of using multimedia representational aids to convey information about urban rail transit connections to airports.

United States Army Environmental Policy Institute, 1992, (with Joseph Ferreira Jr.).

Funding for the creation of an interactive video information system on environmental issues and activities in the U.S. Army.

OTHER ACCOMPLISHMENTS

Professional Training

Qualified and certified to operate elevated and subway trains in passenger service at the Chicago Transit Authority 2002-2007.

Awards and Honors

Kathy Osterman Award Recognizing Superior Public Service (2005).

Leadership Greater Chicago: 2003 Leadership Fellow.

Lambda Alpha International, the Honorary Society for the Advancement of Land Economics (2003).

Editor

Journal of the Urban and Regional Information Systems Association (Information and Media Sciences) 1999-2003

Editorial Board Member

Computers, Environment and Urban Systems (Pergamon)

Planning & Design: Environment and Planning, B (Pion)

Academic Journal Reviews

Computers, Environment and Urban Systems

IEEE Transactions on Pattern Analysis and Machine Intelligence

International Journal of Geographic Information Systems

ISPRS Journal of Photogrammetry and Remote Sensing

Planning & Design: Environment and Planning, B

The Annals of Regional Science

John Wiley & Sons (Book Proposals)

Conference Leadership

Transportation Research Board of National Academy of Sciences (TRB) - involved with several committees & task forces (2001-present).

Organizer: "MIT Information Technology and the City Symposium," Cambridge, MA, (April, 1998).

Workshop Instructor: "Multimedia Skills for Government Agencies," Urban and Regional Information Systems Association Annual Conference, San Francisco, California, (August, 1991).

Track Chair: Research and New Technology Track, Urban and Regional Information Systems Association Annual Conference, Milwaukee, Wisconsin, (August, 1994).

Leader: Multimedia SIG, Urban and Regional Information Systems Association Annual Conference, Milwaukee, Wisconsin, (August, 1994).

SELECTED INDIVIDUAL CONSULTING EXPERIENCE

Federal Highway Administration , Washington, D.C., (1995).

Gave seminar on the development and application of representational aids for environmental visualization and public participation.

City of St. Louis , St. Louis, Missouri, (1994).

Produced a computer-based strategic plan for the revitalization of St. Louis' distressed neighborhoods that was used as part of that city's Empowerment Zone proposal.

Federal Highway Administration , Washington, D.C., (1994).

Gave seminar on the development and application of representational aids for environmental visualization and public participation.

St. Louis Community Development Agency, St. Louis, Missouri, (1993).

Produced a multimedia information kiosk to inform the public about development agencies, programs, projects and related information about the City of St. Louis.

The World Bank - Economic Development Institute, Washington, D.C., (1993).

Identified relevant trends in multimedia technologies for the communication of economic development information.

St. Louis Community Development Agency, St. Louis, Missouri, (1992).

Assisted the St. Louis Community Development Agency in the implementation of new communications and analysis techniques to enhance public discourse.