

CURRICULUM VITAE

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EDUCATION

Massachusetts Institute of Technology, School of Architecture & Planning. Cambridge, Massachusetts. Ph.D. (Urban and Regional Planning). 2003.
New York University, Robert F. Wagner Graduate School of Public Service. New York, New York. M.U.P. (Master of Urban Planning). 1998.
Rutgers University, Rutgers College. New Brunswick, New Jersey. B.A. (major in Urban Studies, minor in Physics). 1996.

ACADEMIC & RESEARCH APPOINTMENTS

Fulbright Exchange Scholar. Seoul Development Institute. Seoul, South Korea. June – September 2004.
New York University, Tisch School of the Arts, Interactive Telecommunications Program. Fall 2003 – present. Adjunct Professor of Communications.
New York University, Robert F. Wagner Graduate School of Public Service, Urban Planning Program. Fall 2001 – present. Adjunct Assistant Professor of Public Administration.
New York University, Taub Urban Research Center. 1996 – 2003. Associate Research Scientist.

OTHER EMPLOYMENT

Emenity. New York, New York. Co-founder and Chief Technology Officer. December 2002 – February 2004.
AT&T. South Plainfield, New Jersey. Tier 2 Support Specialist. January – June 1996.

MAJOR CONSULTING PROJECTS

New York City Economic Development Corporation. 2004. Research and development of policy strategies and implementation for improving local telecommunications infrastructure. With Appleseed, Inc.

Seoul Metropolitan Government. Seoul, South Korea. 2001-2003. Development of business models, marketing materials, and infrastructure guidelines for Digital Media City, a planned cluster in the northwest section of the city. With JV Associates.

Hudson County Cyberdistrict Feasibility Study. Jersey City, NJ. 2001-2002. Background research on high-technology local development strategies. With Wallace, Roberts & Todd, LLC.

Other Clients. Appleseed, Inc. (New York, NY); Friedwire, Inc. (Boulder, CO); GEA Consulting (Milan, Italy); Institute for Civil Infrastructure Systems (New York, NY); National Association of City Transportation Officials (New York, NY); Nortel Networks (Toronto, Canada); Progressive Policy Institute (Washington, DC); Quova, Inc. (Redwood City, CA); TeleGeography, Inc. (Washington, DC).

PUBLICATIONS

Journal Articles

2004. **Digitally Mediated Urban Space: New Lessons for Design.** *Praxis: journal of writing + building.*

2003. **Why wireless networks want to be free.** With Terry Schmidt. *Communications of the Association for Computing Machinery (ACM).*

2001. **The Internet and the rise of the new network cities: 1969-1999.** *Environment and Planning B*, special issue on "Cybergeography". 28(1):39-58.

2001. **Networked cities and the global structure of the Internet.** *American Behavioral Scientist*, special issue on "Mapping the Global Web". 44(10):1698-1717.

2000. **Life in the real-time city: mobile telephones and urban metabolism.** *Journal of Urban Technology.* (7)2:85-104.

2000. **The Internet backbone and the American metropolis,** with Mitchell L. Moss. *The Information Society Journal.* 16(1):35-47.

1997. **Tracking the 'net: using domain names to measure the growth of the Internet in U.S. cities,** with Mitchell L. Moss, *Journal of Urban Technology,* 4(3):47-60.

Book Chapters

2004. **Response, Restoration, and Recovery: September 11th and New York City's Digital Networks.** With Mitchell L. Moss. In Crisis Communications: Perspectives on September 11th. A. Michael Noll, ed. (Rowan and Littlefield, Chicago)
2004. **Trauma and Rebuilding in the Digital Era.** With William J. Mitchell. In The Resilient City, Larry Vale and Thomas Campanella, eds. (Oxford University Press, Cambridge, England)
2004. **Learning from Sept 11: ICT Infrastructure Collapses in a 'Global' Cybercity** In Cybercities Reader, Stephen Graham, ed. (Routledge, New York)
2004. **New Digital Geographies: Information, Communication, and Place**, with Matthew Zook, Yuko Aoyama, and Martin Dodge. In Geography and Technology (Association of American Geographers, Washington, DC)
2004. **Moving Information in the Twenty-First Century City.** With Mitchell L. Moss. In Moving People, Goods, and Information in the Twenty-First Century City, Richard E. Hanley, ed. (Routledge, New York)
2001. **Mobile communications in the 21st century city.** In The Wireless World: Social and Interactional Aspects of the Mobile Age, Barry Brown, Ed. (Springer-Verlag, Berlin)
2000. **The role of the real city in cyberspace: measuring and representing regional variations in Internet accessibility**, with Mitchell L. Moss in Information, Place, and Cyberspace, Donald Janelle and David Hodge, eds. (Springer-Verlag, Berlin)
1999. **How telecommunications systems are transforming urban spaces** with Mitchell L. Moss. Chapter 3 in Fractured Geographies: Cities in the Telecommunications Age, James O. Wheeler and Yuko Aoyama, eds. (Routledge, New York)

Research Reports

1997. **Immigration is transforming New York City**, with Mitchell L. Moss and Emmanuel Tobier. Taub Urban Research Center, New York University, December.
1997. **Manhattan leads the 'net nation**, with Mitchell L. Moss. Taub Urban Research Center, New York University, November.
1996. **Leaders and losers on the Internet**, with Mitchell L. Moss, Taub Urban Research Center, New York University, September.

Other Articles and Letters

2004. **Big in South Korea**, *The New Statesman*. (London, UK) 31 May, pp. xxxi-xxxiii.
2001. **America's new communications hubs**, in *Reflections on the Fifth Anniversary of the Telecommunications Act*. (New Millennium Research Council, Washington, DC)
2000. **Life in the real-time city**, *On: The New World of Communication*. Corporate magazine of Ericsson Telecommunications. April.

2000. **Virtual interactions**, Letter to the Editors, *Los Angeles Times*, Sunday, November 5, 2000. Response to “The Place That Tech Forgot”, October 19, 2000.
2000. **Attention e-mart shoppers**, Letter to the Editors, *Wired*, June 2000. Response to “Capitalist E-Construction”, March 2000.
1998. **The wired metropolis: the Internet backbone and the future of cities in the information age**, *Connect: The Journal of Academic Computing at New York University*, Fall.
1998. **Community networks: New York's rotten apple**, *Connect: The Journal of Academic Computing at New York University*, Spring.
1997. **Good morning New York! Everyone please plug in**, *Connect: The Journal of Academic Computing at New York University*, Fall.

HONORS & AWARDS

- Prix Ars Electronica**, Honorable Mention, Digital Communities. For work done through NYCwireless, Corp.
- Departmental Fellowship**, Massachusetts Institute of Technology, School of Architecture and Planning, Department of Urban Studies and Planning.
- Dean's Scholarship**, 1996-1997 and 1997-1998 academic years. Robert F. Wagner Graduate School of Public Service, New York University
- Housing Scholar Fellowship**, 1995, New Jersey Department of Community Affairs, for summer internship at Housing and Economic Opportunities of South Jersey, Inc. Westmont, NJ

RESEARCH GRANTS

- Fulbright Exchange Scholarship**. For 3-month (June-September 2004) residence at the Seoul Development Institute, Seoul, South Korea.
- Harold Horowitz (1951) Student Research Fund Award**. School of Architecture and Planning, Massachusetts Institute of Technology, May 2000.
- Project Varenus Seed Grant**. "Planning for an Internet Census". National Center for Geographic Information Analysis, University of California, Santa Barbara. Co-participants: Shane Murnion, University of Portsmouth, Martin Dodge, University College London

TEACHING EXPERIENCE

At **Tisch School of the Arts**, New York University:

Wireless Public Space (Spring 2004). A workshop on new applications of wireless technology designed for mobile citizens, with an emphasis on improving social and environmental sustainability.

Theory and Design of Mediated Urban Spaces (Fall 2003). Investigations in digital media and urban design, with a particular emphasis on local wireless networking technologies and applications.

At **Robert F. Wagner Graduate School of Public Service**, New York University:

Technology, New Media, and Cities. (Spring 2002, Spring 2003, Spring 2004). A survey course on the role of information and communications technology in urban development during the 20th century.

Geographic Information Systems in Planning. (Fall 2001, Fall 2002, Fall 2003). Spatial analysis using GIS to solve urban planning problems.

Managing and Presenting Data. (Summer 2001, Summer 2002, Summer 2003). Integrated use of Microsoft Office spreadsheet, database management, and presentation tool in public service professions.

Introduction to Geographic Information Systems. (Instructor: Summer 2001, Summer 2002, Summer 2003). Basic skills of computer-based mapping.

CONFERENCE PRESENTATIONS

April 23, 2004

**STELLA (Sustainable Transport in Europe and Links and Liasons with America)
Focus Group 2 Meeting**

Budapest, Hungary

“Mobile Communications and Sustainable Transportation: An Agenda for Research and Action”

October 21-24, 2004

ACSP Annual Conference

Portland State University (Portland, Oregon)

Track Co-Chair, “Analytical Methods and Computer Applications”

July 11, 2003

AESOP-ACSP Joint Congress

Catholic University of Leuven (Leuven, Belgium)

“Building Seoul Digital Media City”

May 9, 2003

Project STELLA Focus Group 2 Meeting

University of Newcastle (Newcastle, England)

“The Untethered City: Space-time Dynamics in the Age of Mobile Communications”

November 11, 2002

Association of Collegiate Schools of Planning Annual Meeting

Baltimore, Maryland

“Harnessing Wireless Technology for Local Economic Development”

April 14, 2002

American Planning Association National Planning Conference

Chicago, Illinois

“The Fiber Boom and Bust: Inequities in the Deployment of Advanced Telecommunications Infrastructure”

December 13, 2001

Workshop on Learning from Urban Disasters

Institute for Civil Infrastructure Systems, New York University (New York, New York)

“Telecommunications Infrastructure: Response, Resolution, and Recovery in New York City”

November 2, 2001

Digital Communities 2001

Chicago, Illinois

“Urban Communications in the Age of Terrorism”

June 2001

Bringing Information Technology to Infrastructure

Institute for Civil Infrastructure Systems (Washington, DC)

“Mobile Computing and Communications: New Interactions Between Information Architecture and Infrastructure Use”

April 2001

Machines That Become Us

School of Communications, Information and Library Sciences

Rutgers University (New Brunswick, NJ)

“Building Smart Cities with Location-Based Services”

March 2001

Conference on Human Factors in Computing (ACM SIGCHI)

Seattle, Washington

“The Science of Location: Why the Wireless Development Community Needs Geography, Urban Planning, and Architecture”

February 2001

Annual Meeting of the Association of American Geographers

New York, NY

“Network Cities and the Global Structure of the Internet”

December 2000

Global Conference on Economic Geography

National University of Singapore (Singapore)

“Information and Communications in the Integration of Hong Kong and the Pearl River Delta Region”

November 2000

E-Commerce and the Environment

Tellus Institute and New York Academy of Sciences (New York, New York)

“Moderator: E-Commerce and Land Use”

November 2000

Association of Collegiate Schools of Planning Annual Meeting

Atlanta, Georgia

“The Internet and the Rise of the New Network Cities: 1969-1999”

September 2000

Association of Internet Researchers 1st Annual Conference

University of Kansas (Lawrence, Kansas)

“The Internet and the Rise of the New Network Cities: 1969-1999”

June 2000

Congress for the New Urbanism

Portland, Oregon

“The Role of Neighborhoods in the Information Age”

June 2000

Moving People, Goods, and Information in the 21st Century: Urban Technology, the New Economy, and Cutting-Edge Infrastructures

New York Academy of Sciences (New York, New York)

“They’re No Longer Just Teleports: New Telecommunications Infrastructure”

April 2000

The Wireless World

Digital World Research Center, University of Surrey (Surrey, England)

“Life in the Real-Time City: Mobile Telephones and Urban Metabolism”

November 1999

Cities in the Global Information Society

University of Newcastle (Newcastle, England)

“Where is the information in urban economic development? Lessons from the Clinton Administration” (with Mitchell L. Moss)

July 1999

E-Space IV

Cape Town, South Africa

“The Internet Backbone and the American Metropolis”

November 1998

Measuring and Representing Accessibility in the Information Age

National Center for Geographic Information and Analysis (Pacific Grove, California)

“Regional Variations in Internet Accessibility”

April 1998

Technological Futures - Urban Futures

University of Newcastle (Durham, England)

“Spatial Analysis of the Internet in U.S. Cities and States” (with Mitchell L. Moss)

March 1998

Telecommunications and the City

University of Georgia (Athens, Georgia)

“How Telecommunications Systems are Transforming Urban Spaces”

INVITED LECTURES

June 16, 2004

Intel Lab, Berkeley

Berkeley, California

“Digital Media and Urban Space: The Dawn of a New Design Profession?”

June 7, 2004

Hallym University, Department of Communications

Cheon'chun, Korea

“Designing Seoul Digital Media City”

May 10, 2004

Intel Corporation, People and Practices Research Group

Hillsboro, Oregon

“Everyday Computing: Learning from New York City's Wireless Parks”

May 7, 2004

Intel Lab, Berkeley

Berkeley, California

“Everyday Computing: Learning from New York City’s Wireless Parks”

April 20, 2004

Centre for Advanced Spatial Analysis, University College London

London, England

“Digitally Mediated Urban Space: New Lessons for Design”

February 20, 2004

Cornell SIGCHI Distinguished Lecturer Series

Ithaca, New York

“Digitally Mediated Public Space: Where Ubiquitous Computing Hits the Reality of the Streets”

February 9, 2004

New York City Council, Select Committee on Technology in Government

New York, New York

“Leveraging I-Net to Support Community Wireless Broadband Initiatives in New York City”

December 4, 2003

Shared Airwaves/Shared Content: Open Spectrum and Digital Rights Management

Washington, DC

“Grassroots Wireless Communities”

November 20, 2003

The Wireless Internet and Municipal Government

Atlanta, Georgia

Track Chair: “Case Studies”

September 9, 2003

Intel Corporation, People and Practices Research Group

Hillsboro, Oregon

Keynote address: “The Links Between Place, Computing, and Mobility”

August 29, 2003

Institute for Hypernetwork Society

Oita, Japan

“NYCwireless and Wi-Fi in the Big Apple”

August 27, 2003

Center for Global Communications, International University of Japan

Tokyo, Japan

“NYCwireless and Wi-Fi in the Big Apple”

June 17, 2003

Markle Foundation

New York, New York

“Untethered Communications and the Future of Cities”

March 11, 2003

Association of the Bar of the City of New York (Telecommunications Committee)

New York, New York

“Public Wireless Networks in New York City”

February 13, 2003

Department of Geography, University College London

New York, New York

“Geographies of Wireless Communications”

January 1, 2003

Real Estate Technology Forum

New York, New York

“Wireless Technology: Opportunities for the Real Estate Industry”

June 24, 2002

New York City Council, Select Committee on Technology in Government

New York, New York

“Testimony on Broadband Policy”

April 18, 2002

New York New Media Association, Wireless Design SIG

New York, New York

“Free Wireless LANs: Redefining the Wireless User Experience”

April 9, 2002

American Institute of Architects, New York Chapter, Information Technology SIG

New York, New York

“Wireless Community Networks: Some Implications for Architecture and Urban Design”

March 5, 2002

National Research Council, Computer Science and Telecommunications Board

Washington, DC

“Urban Telecommunications in an Age of Terrorism”

December 4, 2001

Center for Advanced Technology, New York University

New York, NY

“Wireless Community Networks: Birth of A Grassroots Movement”

December 10, 2001

New York University, Interactive Telecommunications Program

New York, New York

“Cities as Information Centers: Terrorism, technology, and the future” (with Mitchell L. Moss)

April 2000

Office of Policy Development and Research, U.S. Department of Housing and Urban Development

Washington, DC

“America’s Cities in the Digital Economy: Opportunities and Challenges for Urban Policy”

PUBLIC SERVICE ACTIVITIES

Advisory Board, “The New Lower Manhattan and It’s Digital Future”, Lower Manhattan Cultural Council. 2003-2004.

Advisor on Broadband Issues, **Select Committee of Technology in Government, New York City Council**, 2002-2003.

Board of Directors, **NYCWireless, Corp.** 2001-.

Editor, **Projections: The Student Journal of Urban Planning at Massachusetts Institute of Technology**. 2000-2001.

Member, Nominating Committee (Architecture/Urbanism). **Prix Ars Electronica Cyberarts Competition**. 2001, 2002, 2003, 2004.