

Jan 2022

CURRICULUM VITA

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Interests

Art and science: presence and abstraction, new media and interactivity, funding models.
Place representation: field cinematography, image-based modeling, immersive virtual environments.
Consequences: virtual travel and tourism, cultural geography, globalization.

Born

1952, Detroit, MI
US Citizen

Education

M.S., Visual Studies and Environmental Art, Massachusetts Institute of Technology, 1979
B.S., Cybernetic Systems (independent major, with high distinction and high honors), University of Michigan, 1974

Full-Time Academic Appointments

2017 - 2021: Visiting Associate Arts Professor, Interactive Media Arts, New York University Shanghai, CHINA

2004-2008: Interactive Media Division, School of Cinematic Arts, University of Southern California

2006-8: Research Associate Professor

2004-6: Visiting Associate Professor

Part-Time Academic Appointments

2011-2014: Massachusetts Institute of Technology

2012-2014: Affiliate

2011: Visiting Associate Professor, Program in Media Arts and Sciences (Media Lab)

2009-2013: New York University

2010-2013: Field Instructor, Faculty Search Committee NYU Abu Dhabi (2012-13)

2009: Adjunct Faculty, "Representing Earth," Interactive Telecommunications Program, Tisch School of the Arts

2005: Art Center College of Design, Pasadena

Visiting Faculty, "(Re)Presenting Place," Graduate Media Design Program

2004: New York University

Adjunct Faculty, "History of New Media Arts," Interactive Telecommunications Program, Tisch School of the Arts

1989-1990: San Francisco Art Institute

1990: Visiting Faculty, "Immersive Virtual Environments," New Genres Department

1989: Visiting Faculty, "Virtual Environments," New Genres Department

1981-82, 1986-87: San Francisco State University

1987: Visiting Faculty, "Interactive Art," School of Creative Arts

1986: Visiting Faculty, "Media Technology and the Arts," School of Creative Arts

1981-82: Visiting Faculty, "The Arts Today," School of Creative Arts

1981: Visiting Faculty, "New Media and the Arts," School of Creative Arts

1986: California Institute of the Arts

Visiting Faculty, "Aesthetics of Interactivity," School of Film/Video

1977-80: Massachusetts Institute of Technology

1979-80: Research Fellow, Center for Advanced Visual Studies

1978-79: Technical Instructor (film/video), Architecture Machine Group

1977: Teaching Assistant, "Creative Seeing," College of Architecture

1972-75: University of Michigan

1974-75: Instructor (video), Residential College and Department of Geography

1972-75: Instructor (and co-founder), Future Worlds Program, College of Literature, Science, and Arts

Professional Experience

2017 - 2021: NYU Shanghai (Full-Time)

2009-2016: Media Artist and Researcher (self-employed)

2016: Consultant, Jaunt VR, Palo Alto, CA
2015: Resident Artist (their first), VR Division, Google, Mountain View, CA
2011-2016: Partner, "liive.tv," a USC-initiated startup around spontaneous video webcasting, New York
2011: Consultant, "My3D" consumer stereoscopic viewer, Hasbro, Inc., Pawtucket, RI
2010: Consultant, "Movie Tagger", a USC-initiated project, Related Content Database (RCDB) Inc., SF
2009: Project Director, "80+1: A Journey Around the World", an EU Culture Capital project produced by Ars Electronica, Linz, AUSTRIA

2004 – 2008: USC (Full-Time)

2001-2004: Media Artist and Researcher (self-employed)
2004: Ars Electronica Festival, Linz, AUSTRIA (guest curator, 25th anniversary symposium)
2004: Columbia University School of the Arts (consultant for the art and technology strategic plan)
2002-03: Rockefeller Foundation and Leonardo/ISAST, New York (director, "arts lab" feasibility study)
1992-2001: Member of the Research Staff, Interval Research Corporation, Palo Alto (Full-Time)
One of first 15 employees
Founding Member, Intellectual Property Committee
Co-Chair, Publications Committee
Project Coordinator, "Immersion" and "New Media" projects
Lead Inventor, 6 patent applications (all allowed)
Initiator, Kundi.com, a spinoff venture around spontaneous video webcasting
1980-1992: Media Artist and Researcher (self-employed)
1980-81, 1991-92: MIT Media Lab (consultant)
1987-90: Apple Multimedia Lab (full-time consultant)
1986-90: Lucasfilm (consultant)
1985-86: Panavision (consultant)
1982-84: Atari Research Lab (full-time consultant)
and:
St. Louis Zoo (1989); Technology Center of Silicon Valley, San Jose (1989); City of Karlsruhe ZKM Advisory delegation (1988); Fleet Science Center, San Diego (1988); LA Open School (1988); Museum of Science and Industry, Chicago (1988); Advanced Interaction Inc., San Francisco (1987); Videodisc Publishing, Inc., New York (1987); HOK Associates, St. Louis (1987); Mattel Inc., Hawthorne, CA (1987); Lotus Development Corporation (w/The Future Squad), Cambridge (1987); NY Museum of Modern Art (1986); Advanced Decision Systems, Mountainview, CA (1986); Microsoft Corporation, Seattle (1986); Renan Productions, Los Angeles (1985); SF Museum of Modern Art (1985); Mirror Systems, Cambridge (1985); Lynn Hershman Projects, San Francisco (1984); Realtime Video Productions, San Francisco (1984); Bank of America, San Francisco (1983); Search and Design, San Anselmo (1982); WED Enterprises (Disney Research) (1982), Glendale, CA; Office of the President, National Geographic Society, Washington DC (1981).

Artist Residencies

2015: Google VR, Mountain View, CA
2005: "(Re)Presenting Place," Art Center College of Design, Pasadena
2001-2: Institute of Advanced Media Arts and Sciences (IAMAS), Gifu, JAPAN
1993: "Art and Virtual Environments," Banff Centre for the Arts, CANADA
1991: "Bioapparatus," Banff Centre for the Arts, CANADA
1990: Zentrum für Kunst und Medientechnologie (ZKM), Karlsruhe, GERMANY
1987: Exploratorium, San Francisco

Grants, Awards, and Acknowledgements

2020-2021: Recipient, "Special Research Grant," for "bracket hack" improvement for teleconferencing, NYU Shanghai
2018-2020: Recipient, NYU Technology-Enhanced Education (TEE) grant for "TeleWindow" project, NYU Shanghai
2007: Recipient, Google Research Award for "Collective Photo Mapping" (with Paul Debevec as secondary recipient)
2002: Recipient, Rockefeller Foundation Creativity & Culture grant, New York (Leonardo/ISAST "arts lab" study)
2002: Recipient, World Technology Award for the Arts, New York
1992: Recipient, First Award (SFAI Immersive Virtual Environments class), Futures Scenario, ACM SigCHI, Monterey
1992: Recipient, Artist Fellowship Program Grant in "New Genres," California Arts Council
1991: Recipient, Artist Grant, Tamarack Foundation, San Rafael, CA
1989: Recipient, Spring Show Award (Virtual Environments class), SF Art Institute
1984: Recipient, First Award, SECA "Film as Art," SF MOMA
1980: Recipient, Media Arts Fellowship, National Endowment for the Arts
1979: Recipient, M.I.T. Council for the Arts Grant
1978: Recipient, M.I.T. Council for the Arts Grant

2007: Nominee, Rockefeller Foundation Fellowship, New York
2005: Nominee, Rockefeller Foundation Fellowship, New York
2001: Nominee, World Technology Award for the Arts, London, UK
1998: Nominee, ICC Biennale '99, Tokyo, JAPAN (abstained)
1997: Nominee, Rockefeller Foundation Fellowship, New York (abstained)
1995: Nominee, Chrysler Innovation in Design Award, New York
1994: Nominee, ARTEC '95, Nagoya, JAPAN

Professional Activities

Boards and Committees

2018-present: Member, Advisory Board, Gray Area Foundation for the Arts, San Francisco
2017-present: Advisor At Large, The Global Jukebox (by ethnomusicologist Alan Lomax), New York
2012-2013: Member, Faculty Search Committee, Interactive Media, NYU Abu Dhabi
2010-2013: Board of Advisors, WatchWith (formerly Related Content Database) Inc., San Francisco
2006-2009: Member, Scientific Council of the Ludwig Boltzmann Institute for Media Art Research, Vienna, AUSTRIA
2004-2008: Member, MIT Corporation Visiting Committee, Media Laboratory and Media Arts & Sciences, Cambridge
2002-present: Board of Advisors, International Society of Arts, Science & Technology (ISAST), Paris, FRANCE
2000-2008: Board of Directors, ZeroOne Foundation, Palo Alto
2001-2005: Board of Advisors, Media Lab Europe, Dublin, IRELAND
1993-2007: Editorial Advisory Board, Leonardo Electronic Almanac, Cambridge
1991-2006: Editorial Board, PRESENCE, MIT Press, Cambridge
1990: Steering Committee, Cyberthon Conference, Point Foundation, Sausalito
1985-90: Co-Host, Interactive Video Conference, Whole Earth "Lectronic Link (The WELL), Sausalito

Juries

2008: Juror, Hybrid Art, Ars Electronica, Linz, AUSTRIA
2004: Juror, Tania Trepanier Award, Labyrinth Project, Annenberg Center, USC
1998: Jury Chair, Interactive Art, Ars Electronica, Linz, AUSTRIA
1997: Juror, Interactive Art, Ars Electronica, Linz, AUSTRIA
1995: Juror, Interactive Art, Ars Electronica, Linz, AUSTRIA
1995: Juror, 10/10 Portraits in Cyberspace Artshow, MIT Media Lab
1994: Juror, Interactive Art, Ars Electronica, Linz, AUSTRIA
1994: Juror, "NewMediaTopia" Exhibition, Moscow, RUSSIA
1993: Juror, Siggraph Multimedia Exhibition, Los Angeles
1988: Juror, San Francisco International Film Festival
1987: Juror, San Francisco International Film Festival
1987: Juror, Athens International Video Festival, Athens, OH
1986: Juror, San Francisco International Film Festival
1986: Juror, Ann Arbor Film Festival
1985: Juror, First "Cindy" videodisc award, Assoc of Visual Communicators, San Francisco

Miscellanea

2018: Quote, "The Art of Virtual Reality: Notable Artists are Embracing this Game-Changing Medium," Robb Report, September 2018
2018: Quotes, *Valley of Genius: The Uncensored History of Silicon Valley*. Adam Fisher (Hachette, 2018)
2017: Interview, "Virtual Reality: Beyond the Hype", NYU Shanghai Gazette, Dec 2017
2016: Quote, Pioneers of Virtual Reality Art, Financial Times, London, Sep 21, 2016
2016: Quote, "Fantastic Radio Show about VR, c.1992," Boing Boing, Apr 25, 2016
2015: "Designated Grownup" quote, "Palmer Luckey: Defying Reality" (cover story on VR), Forbes (Jan 5, 2015)
2014: Invoked in absentia, "Are Interactive Films Transforming Modern Storytelling? Sundance's New Frontier Has the Answer," IndiWire (Jan 28, 2014)
2012: Featured in GOING PLACES: A HISTORY OF SURROGATE TRAVEL AND GOOGLE MAPS WITH STREET VIEW, Computer History Museum, Mountainview, CA
2010: Quote, *Alan Lomax: The Man Who Recorded the World*. John Szwed (Viking, 2010)
2010: Invited Participant, "Identifying Synergies and Fostering Collaborations", First Joint Meeting of the National Science Foundation and the National Endowment for the Arts, Washington DC
2008: International Program Committee, International Symposium of Electronic Art (ISEA), SINGAPORE
2006: Tenure Reviewer, Interactive Telecommunications Program (ITP), NYU
2005: Proposal Evaluator, Creative Capital Foundation, New York
2004: Director/Curator, Ars Electronica Festival 25th Anniversary Symposium, Linz, AUSTRIA
2004: Collaborator, Siggraph '04 Computer Animation Pre-Show ("Squid Ball")
2003: Thesis Reviewer, Comparative Media Studies, MIT
2003: Demonstrations Program Committee, UbiComp 2003, Seattle (self-withdrawn under protest)
2002-2004: Board of Advisors, National Art and Technology Network (NATN), The Kitchen, New York
2000-2002: Board of Advisors, Creative Disturbance, San Francisco/Marseilles, FRANCE
2000: Advisor, Jewish Museum planning meeting, San Francisco
1999: Graduates Reviewer, SF Art Institute, New Genres
1998-2002: Board of Advisors, Coalition of Artists and Life Forms, San Francisco
1998-2001: Board of Directors, The Lab artists organization, San Francisco
1997: Thesis Reviewer, MIT Media Lab
1996: Papers Reviewer, Symposium for User Interface Software and Technology (UIST), Seattle
1994: Thesis Reviewer, School of Architecture, UC San Diego
1993: Guest Co-Editor, Wide Angle, vol. 15, no. 4, December 1993, John Hopkins University Press, Baltimore
1993: Program Committee, First Virtual Reality Annual International Symposium (VRAIS), IEEE, Seattle
1993: Nominator, Interactive Media Festival, Los Angeles
1991: Thesis Reviewer, SF Art Institute, New Genres
1990: Advisory Group, "Reality on Wheels" VR Exhibition, The Computer Museum, Boston
1989: Graduates Reviewer, Architecture Dept, Cal College of Arts and Crafts, San Francisco
1988: Nominator, SECA Video Art Award, SF MOMA
1987: Project Development Committee, "Anthropology" Television Series, Institute of Human Origins, Berkeley

1985-90: Co-Host, Interactive Video Conference, Whole Earth "Lectronic Link (The WELL), Sausalito
1984: Contributing Editor, Video and the Arts (formerly Video Eighties), San Francisco
1984: Board of Advisors, Twin Palms Gallery, San Francisco
1981-present: Subscriber/Mailing List Member, American Cinematographer magazine
1981-present: Member, Society for Visual Anthropology, American Anthropological Association, Washington, DC

Websites

2017-2021: Professor, VR/AR Fundamentals, class blogs, NYU Shanghai Interactive Media Arts.
https://wp.nyu.edu/shanghai-vr_ar_fundamentals/

2008-2009: Project Director, "80+1: A Journey Around the World", an EU Culture Capital project 2009 produced by Ars Electronica, Linz, AUSTRIA. <http://www.80plus1.org/>

2007-2008: Project Director, "Viewfinder: How to Seamlessly 'Flickrize' Google Earth," A collaboration between the Interactive Media Division and the Institute for Creative Technologies, USC. <http://interactive.usc.edu/viewfinder/>

2001-present: <http://www.naimark.net/>

Publications

Naimark, M. (2021). Where's Planet Earth in the Metaverse? *Medium*, December 2021.

Naimark, M. (2021). A Cheap Simple Hack for Improving Your Online Classtime Experiences. *Medium*, January 2021.

Naimark, M. (2020). Shanghai Updates. (self published on www.naimark.net).

Naimark, M. (2019). How the 62 Year Story of Art at MIT Shaped the Media Lab Ethos. *Medium*, September 2019.

Naimark, M. (2019). VR/AR 7-Part Series (in English and Chinese). Research and Instructional Technology Services (RITS), NYU Shanghai. Online.

Naimark, M. (2018). Increasing VR Creativity: More Risky Research, Less Master Classes." *Medium*, August 2018.

Naimark, M. (2018). VR / AR Fundamentals – 5) Live & Social + Epilogue. *Medium* 3/9/18.

Naimark, M. (2018). VR / AR Fundamentals – 4) Input & Interactivity. *Medium* 3/3/18.

Naimark, M. (2018). VR / AR Fundamentals – 3) Other Senses (Touch, Smell, Taste, Mind). *Medium* 2/16/18.

Naimark, M. (2018). VR / AR Fundamentals – 2) Audiovisual Spatiality & Immersion. *Medium* 2/9/18.

Naimark, M. (2018). VR / AR Fundamentals – 1) Audiovisual Resolution & Fidelity. *Medium* 2/2/18.

Naimark, M. (2018). VR / AR Fundamentals – Prologue. *Medium* 1/26/18.

Naimark, M. (2017). A Big, Slow, Global Approach to VR: Silicon Valley's Blind Spot. Canadian Film Centre News, May 2017.

Naimark, M. (2016). VR Interactivity: Some Useful Distinctions. *Medium*, October 17, 2016.

Naimark, M. (2016). Being Early: Challenges and Opportunities as VR Grows Up. *Presence* 25.2, November 2016.

Naimark, M., Lawrence, D.H., McKee, J.J. (2016). VR Cinematography Studies for Google. *Medium*, June 22, 2016.

Naimark, M. (2014). Why VR Headsets Will Stick. (self published on www.naimark.net).

Naimark, M. (2010). Camera Cars. (self published on www.naimark.net).

Naimark, M. (2008). "X"ing the World in 80 Days. Project Director's statement for 80+1: A Global Journey (online).

Naimark, M., Tribe, M. (2006). Academic Art and Technology Wiki (online)

Naimark, M. (2006). Aspen the Verb: Musings on Heritage and Virtuality. *Presence* 15.3

Naimark, M. (2005). Two Unusual Projection Spaces. *Presence* 14.5 (translated to Romanian online, 2011)

Naimark, M. (2005). Be Now Here: an Interactive 3D Panorama. *Proc. 12th International Panorama Conference, IPC International Panorama Council, Bonn, GERMANY*

Fisher S., Anderson S., Ruiz S., Naimark M., Hoberman P., Weinberg R. (2005). "Experiments in Interactive Panoramic Cinema", Stereoscopic Displays and Virtual Reality Systems IX, Woods, A., Bolas, M.T., and Merritt, J. O., Editors, *Proc. SPIE 5664*

Naimark, M. (2004). Addressing Time. Curatorial Statement for the Festival Symposium, *Ars Electronica 2004*, G. Stocker, Editor, Ostfildern-Ruit, GERMANY: Hatje Cantz Verlag

Naimark, M., Sutton, G. (2004). Chronological Age: Ars Electronica's Timeline Project 1979–2003, *Ars Electronica 2004*, G. Stocker, Editor, Ostfildern-Ruit, GERMANY: Hatje Cantz Verlag

Naimark, M. (2004). Calculated Risk. Forward for *A Guide to Good Practice in Collaborative Working Methods and New Media Tools Creation*, L. Goodman and K. Milton, Eds., London, UK Arts and Humanities Data Service.

Naimark, M. (2003). Sensory Anomalies. In *Design Research: Methods and Perspectives*, B. Laurel, Editor, Cambridge, MA: The MIT Press.

Naimark, M. (2003). Truth, Beauty, Freedom, and Money: Technology-Based Art and the Dynamics of Sustainability. (published on the Arts Lab website: <http://www.artslab.net/>).

- Naimark, M. (2002). Alan Lomax's Multimedia Dream. (published on the Lomax website: http://www.alan-lomax.com/style_globaljukebox.html).
- Naimark, M. (2002). VR Webcams: Time Artifacts as Positive Features. *ISEA 2002 Proceedings*, Nagoya, JAPAN.
- Naimark, M. (2002). How to Zap a Camera. (self published on www.naimark.net).
- Naimark, M. (2002). Interaction 01 Review. *Diabxt, the critical journal by the Kyoto Art Center*, vol. 6, Kyoto, JAPAN.
- Pilpré A., Sester M., Naimark M., Terrillon J.C., and Niwa Y. (2002). ACCESS: A Video-Based Tracking Spotlight. *VSM '02 Proceedings*, Gyeongju, KOREA.
- Naimark, M. (2001). VR Today. *Leonardo Electronic Almanac Vol. 9:5*.
- Naimark, M. (2001). Leash Length. *EMERGENCY 1.5*.
- Naimark, M. (2001). Where are the Anthropologists? *Leonardo Electronic Almanac Vol. 9:1*.
- Naimark, M. (2001). Symmetrical Media. *EMERGENCY, 1.4*.
- Naimark, M. (2001). First Word Art/Last Word Art. *FineArtForum vol.15, issue 8*.
- Naimark, M. (2001). Interaction '01. *Leonardo Digital Reviews*.
- Naimark, M. (2001). An Arts Lab. (Open Letter to the Presidio Trust).
- Naimark, M. (2000). Predictions *EMERGENCY 1.1*.
- Naimark, M. (2000). Memorial for Bernard Q. Nietschmann. (self published on www.naimark.net) U C Berkeley Faculty Club.
- Naimark, M. (1999). Art at Interval. (self published on www.naimark.net) Tech Museum of Innovation, San Jose.
- Naimark, M. (1998). Field Recording Techniques for Virtual Reality Applications. *VSM '98 Proceedings*, Gifu, JAPAN.
- Naimark, M. (1998). Place Runs Deep: Virtuality, Place, and Indigenoussness. *Virtual Museums Symposium Proceedings*, Arch Foundation, Salzburg, AUSTRIA.
- Naimark, M. (1998). Art School en Provence. *Interval Research Trip Report*, Aix, FRANCE, 11/98.
- Naimark, M. (1998). Virtual Systems and Multimedia (VSM) Conference. *Interval Research Trip Report*, Gifu, JAPAN, 11/98
- Naimark, M. (1998). World's First Interactive Filmmaker. *Interval Research Trip Report*, Prague, CZECH, 5/98.
- Naimark, M. (1998). Prix Ars Electronica Jury. *Interval Research Trip Report*, Linz, AUSTRIA, 5/98.
- Naimark, M. (1997). Art ("and" or "versus") Technology: Some Personal Observations. In C. Sommerer (Ed.), *Art@Science*. Vienna and NY: Springer Press.
- Naimark, M. (1997). A 3D Moviemap and a 3D Panorama. *SPIE Proceedings Vol. 3012*, San Jose.
- Naimark, M. (1997). What's Wrong with this Picture: Presence and Abstraction in the Age of Cyberspace. *Consciousness Reframed Proceedings*, CAiiA, University of Wales, Newport, WALES.
- Naimark, M. (1997). Interactive Art: Maybe it's a Bad Idea. In H. Leopoldseeder, C. Schopf (Eds.), *Cyberarts, International Compendium Prix Ars Electronica*. Vienna and NY: Springer Press.
- Naimark, M. (1997). ZKM Opening. *Interval Research Trip Report*, Karlsruhe, GERMANY, 10/97.
- Naimark, M. (1996). Field Recording Studies. In M.A. Moser (Ed.), *Immersed in Technology*. Cambridge, MA: MIT Press.
- Naimark, M. (1996). Be Now Here. *Leonardo Electronic Almanac, vol. 4, no. 1*.
- Naimark, M. (1996). (untitled talk), *NewMediaLogia Symposium Proceedings*, Soros Center for Contemporary Art, Moscow, RUSSIA.
- Naimark, M. (1996). Gifu Update. *Interval Research Trip Report*, Gifu, JAPAN, 5/96.
- Naimark, M. (1996). ATR Science ART: International Symposium on Art and Science. *Interval Research Trip Report*, Kyoto, JAPAN, 5/96.
- Naimark, M. (1995). New Media International Symposium, Moscow. *Leonardo Electronic Almanac, vol. 3, no. 2*.
- Naimark, M. (1995). EXCAVATION AREA: A Virtual Gallery of Archaeological Art" (Japanese). *InterCommunication (NTT) No.14*, Tokyo, JAPAN.
- Naimark, M. (1995). Art, Artifacts, and Presence. *Oksnoen '95 Proceedings*, Oksnoen, NORWAY.
- Naimark, M. (1995). Be Now Here Dispatches. *Interval Research Trip Report*, Jerusalem, ISRAEL; Dubrovnik CROATIA; Timbuktu, MALI; Angkor, CAMBODIA, 10/95.
- Naimark, M. (1995). Interaction '95 Artshow. *Interval Research Trip Report*, Gifu, JAPAN, 7/95.
- Naimark, M. (1994). Interactive Art and the Myth of Everything-ness. *Ars Electronica catalog*. Linz, AUSTRIA.
- Naimark, M. (1994). New Media International Symposium. *Interval Research Trip Report*, Moscow, RUSSIA, 11/94.
- Naimark, M. (1994). Digital Expression Symposium, MIT Media Lab. *Interval Research Trip Report*, Cambridge, 10/94.
- Naimark, M. (1994). UNESCO III. *Interval Research Trip Report*, Paris, FRANCE, 9/94.
- Naimark, M. (1994). International Symposium on Electronic Art (ISEA). *Interval Research Trip Report*, Helsinki, FINLAND, 9/94.
- Naimark, M. (1994). New Media for New Museums First International Retreat. *Interval Research Trip Report*, Ferrara, Bologna, ITALY, 5/94.
- Naimark, M. (1994). Artclass, Universities of Paris. *Interval Research Trip Report*, Paris, FRANCE, 3/94.
- Naimark, M. (1993). Presence at the Interface: Sense of Place/Essence of Place. *Wide Angle, vol. 15, no. 4*.
- Naimark, M. (1993). Prasenz bei Interface" (German), *Interface II Proceedings*, Verlag Hans-Bredow, Hamburg, GERMANY
- Naimark, M. (1993). Alan Lomax Meeting. *Interval Research Trip Report*, New York, 11/93.
- Naimark, M. (1993). ZKM MultiMediale 3. *Interval Research Trip Report*, Karlsruhe, GERMANY, 11/93.
- Naimark, M. (1993). UNESCO II. *Interval Research Trip Report*, Paris, FRANCE, 11/93.
- Naimark, M. (1993). Elk Update. *Interval Research Trip Report*, Banff, CANADA, 10/93.
- Naimark, M. (1993). Beaux-Arts Conference, *Interval Research Trip Report*, Paris, FRANCE, 6/93.
- Naimark, M. (1993). National Association of Broadcasters (NAB) Convention. *Interval Research Trip Report*, Las Vegas, 4/93.

- Naimark, M. (1993). UNESCO. *Interval Research Trip Report*, Paris, FRANCE, 2/93.
- Naimark, M. (1993). Interface II Conference. *Interval Research Trip Report*, Hamburg, GERMANY, 2/93.
- Naimark, M. (1992). Expo '92 Seville. *Presence*, vol. 1, no. 3.
- Robinett, W., Naimark, M. (1992). Artists Explore Virtual Reality: The Bioapparatus Residency at the Banff Centre for the Arts. *Presence*, vol. 1, no. 2.
- Naimark, M. (1992). Multimedia and Public Space. *Apple Multimedia Lab Technical Report*.
- Naimark, M. (1992). International Association of Amusement Parks and Attractions (IAAPA) Convention. *Interval Research Trip Report*, Dallas, 12/92.
- Naimark, M. (1992). CyberArts Conference. *Interval Research Trip Report*, Pasadena, 11/92.
- Naimark, M. (1992). Spy Stores. *Interval Research Trip Report*, New York, 11/92.
- Naimark, M. (1992). EXPO '92 Seville Report. *Movies of the Future Newsletter*, MIT Media Lab.
- Naimark, M. (1991). Elements of Realspace Imaging: a Proposed Taxonomy. *SPIE Proceedings*, Vol. 1457, San Jose.
- Naimark, M. (1991). Elements of Realspace Imaging: a Proposed Taxonomy. *First Moscow International Workshop on Human-Computer Interaction Proceedings*, International Centre for Scientific and Technical Information, Moscow, USSR.
- Naimark, M. (1991). Elements of Realspace Imaging. *Apple Multimedia Lab Technical Report*.
- Naimark, M. (1991). VBK - A Moviemap of Karlsruhe. *Tomorrow's Realities catalog*, Siggraph, Las Vegas.
- Naimark, M. (1991). EAT - A Virtual Dining Environment. *Tomorrow's Realities catalog*, Siggraph, Las Vegas.
- Naimark, M. (1991). Moviemap Basics. *MultiMediale II catalog*, Zentrum fur Kunst und Medientechnologie (ZKM), Karlsruhe, GERMANY.
- Naimark, M. (1991). Abstraction and Artifacts in Cyberspace: Getting Real (abstract). *The Second International Conference on Cyberspace*, Center for Cultural Studies, UC Santa Cruz.
- Naimark, M. (1991). Multimedia '91 Tokyo Report. *Movies of the Future Newsletter*, MIT Media Lab.
- Naimark, M. (1991). Moscow HCI Report. *Movies of the Future Newsletter*, MIT Media Lab.
- Naimark, M. (1991). Interactive Multimedia Developer's Forum Report. *Movies of the Future Newsletter*, MIT Media Lab.
- Naimark, M. (1991). Human Interface Technology Lab Opens. *Movies of the Future Newsletter*, MIT Media Lab.
- Naimark, M. (1990). Realness and Interactivity. In B. Laurel (Ed.), *The Art of Human Computer Interface Design*. NY: Addison Wesley.
- Naimark, M. (1990). Interface and New Interactive Systems Panel, B. Laurel (Chair). *Siggraph '90 Panel Proceedings*, Dallas.
- Naimark, M. (1989). The Question Machine. *Whole Earth Review*, no. 65.
- Naimark, M. (1989). Shooting for Interactivity (abstract). *SMPTE conference proceedings*, Los Angeles.
- Naimark, M. (1989). Media Glasses, Media Windows and Media Doors. *Kanagawa International Art and Science Exhibition catalog*, JAPAN.
- Naimark, M. (1988). Videodisc Basics. *Apple Multimedia Lab Technical Report*.
- Naimark, M. (1988). Videodisc Production of the Visual Almanac. *Apple Multimedia Lab Technical Report*.
- Naimark, M. (1984). Spatial Correspondence in Motion Picture Display. *SPIE Proceedings*, vol. 462, *Optics and Entertainment*, Los Angeles.
- Naimark, M. (1984). Saving the First World," *Send Magazine*, San Francisco International Video Festival.
- Naimark, M. (1982). The Optical Videodisc and New Media Forms. *Video 80*, San Francisco International Video Festival.
- Naimark, M. (1982). Motion Resolution (letter to editor) *American Cinematographer*, August.
- Naimark, M. (1981). Some Notes on Movies and Form. *Video 80*, San Francisco International Video Festival.
- Naimark, M. (1979). Spatial Correspondence. MS Visual Studies master's thesis, Massachusetts Institute of Technology, 1979.

Video

- Naimark, M. (1997). Alan Lomax' Global Jukebox Project. Video (Producer). Interval Research Corporation for the Association for Cultural Equity, Hunter College, New York.
- Naimark, M. (1989). The Visual Almanac. Interactive Videodisc (Director of Production). Apple Multimedia Lab, San Francisco.
- Naimark, M. (1986). GTV. Interactive Videodisc (Director of Post Production). Apple Computer, Lucasfilm, National Geographic Society, San Francisco.
- Naimark, M. (1984). Siggraph '84 Timelapse. Video (Producer/Director), ACM Siggraph, Minneapolis.
- Naimark, M. (1984). Illustration Library Workstation. Video (Director). Atari Research for the National Geographic Society, Sunnyvale.

Patents Allowed

Naimark, M., Bergman, A., Weil, E., Moresco, I., Faieta, B. (2016). Alerting users to items of current interest. US Patent 9317560 (from Kundi.com).

Naimark, M. (2013). Camera with precise visual indicator to subject when within camera view. US Patent 8531590 (via USC).

Naimark, M., Bergman, A., Weil, E., Moresco, I., Faieta, B. (2013). Alerting users to items of current interest. US Patent 8429244 (from Kundi.com).

Naimark, M., DeBerry, S., Moresco, I. (2012). Source-Based Alert When Streaming Media of Live Event on Computer Network is of Current Interest and Related Feedback. US Patent 8301731 (via USC).

Naimark, M. (2012). Seamlessly overlaying 2D images in 3D model. US Patent 8264504 (via USC).

Naimark, M. (2011). Seamlessly overlaying 2D images in 3D model. US Patent 8026929 (via USC).

Naimark, M., DeBerry, S., Moresco, I. (2011). Source-Based Alert When Streaming Media of Live Event on Computer Network is of Current Interest and Related Feedback. US Patent 7930420 (via USC).

Naimark, M., Bergman, A., Weil, E., Moresco, I., Faieta, B. (2004). Alerting users to items of current interest. US Patent 6757682 (from Kundi.com).

Naimark, M., Bergman, A., Weil, E., Moresco, I., Faieta, B. (2004). Normalizing a measure of the level of current interest of an item accessible via a network. US Patent 6721744 (from Kundi.com).

Naimark, M., Bergman, A., Weil, E., Moresco, I., Faieta, B. (2003). Quantifying the level of interest of an item of current interest. US Patent 6556989 (from Kundi.com).

Naimark, M., Adams, R.L., Alkire, R.D., Dohrmann, C., Gessel, D.J., Saunders, S.E. (2000). Input device for controlling a video display, incorporating content-based haptic feedback. US Patent 6075967 (from "See Banff" art project).

Naimark, M., Adams, R.L., Alkire, R.D., Dohrmann, C., Gessel, D.J., Saunders, S.E. (1998). Input device and method for interacting with motion pictures incorporating content-based haptic feedback. US Patent 5816823 (from "See Banff" art project).

Naimark, M., Felsenstein, L. (1997). Panoramic display with stationary display device and rotating support structure. US Patent 5601353 (from Be Now Here art project).

Naimark, M., Carson, K.M. (1993). Content addressable video system for image display. US Patent 5270694 (from Golden Gate art project).

Naimark, M., Carson, K.M. (1993). Content addressable video system for image display. US Patent 5189402 (from Golden Gate art project).

Naimark, M., Carson, K.M. (1989). Position-dependent interactivity system for image display. US Patent 4857902 (from Golden Gate art project).

Patents Pending

Naimark, M., Ballard, C., Huang, G., Juvera Molina, M., Luo, B., Santiano, D., Zhao, A. (2019). Systems and Methods for Interpolative Three-dimensional Imaging within the Viewing Zone of a Display. China PCT and USPTO application.

Naimark, M., Bergman, A., Weil, E., Moresco, I., Faieta, B. (2014). Alerting users to items of current interest. US 20140046957 (from Kundi.com).

Naimark, M. Seamlessly overlaying 2D images in 3D model. US 20120044247 (via USC).

Naimark, M., DeBerry, S., Moresco, I. Source-Based Alert When Streaming Media of Live Event on Computer Network is of Current Interest and Related Feedback. US 20110167136(via USC).

Naimark, M. Camera with precise visual indicator to subject when within camera view. US 20110019073 (via USC).

Naimark M., Carter W. B., Debevec P. E., Hoberman J. P., Jones A., Lamond B. J., Loyer E. C., Mattiolo G. Estimating Pose of Photographic Images in 3D Earth Models using Human Assisatance. US 20090245691 (via USC).

Naimark, M., Bergman, A., Weil, E., Moresco, I., Faieta, B. (2004). Alerting users to items of current interest. US 20090198774(from Kundi.com).

Naimark, M., DeBerry, S., Moresco, I. Source-Based Alert When Streaming Media of Live Event on Computer Network is of Current Interest and Related Feedback. US 20080320159 (via USC).

Naimark, M. Seamless Image Integration Into 3D Models. US 20080024484 (via USC).

System, method, software arrangement and computer-accessible medium for providing audio and/or visual information. US 20060192852 (via NYU).

Naimark, M., Bergman, A., Weil, E., Moresco, I., Faieta, B. (2004). Alerting users to items of current interest. US 20040210555 (from Kundi.com).

Exhibitions

Collections

2000: American Museum of the Moving Image, Queens, NY (See Banff Kinetoscope)
1997: Zentrum fur Kunst und Medientechnologie (ZKM), Karlsruhe, GERMANY (Karlsruhe Moviemap)
1987: Exploratorium, San Francisco (Golden Gate Flyover)

Solo Exhibitions

2005: Alyce de Roulet Williamson Gallery, Center College of Design, Pasadena (6 installations 1977-1997)
2001: Presidio, SF International Film Festival and SF MOMA (Be Now Here)
1995-6: Yerba Buena Center for the Arts, San Francisco (Be Now Here)
1995: Berkeley Art Museum / Pacific Film Archive (See Banff Kinetoscope)
1985-86: Madeleine Metro Station, Paris FRANCE (Paris VideoPlan)
1984: Bruce Velick Gallery, San Francisco (Virtual Object Series)
1984: San Francisco Museum of Modern Art (Displacements)
1980: Center for Advanced Visual Studies (CAVS), MIT (Movie Room)
1978: Dept of Architecture, MIT (Moving Movie Studies and Dome Projections)

Group Exhibitions

2018-19: Art in Motion: 100 Masterpieces with and through Media, ZKM | Centre for Arts and Media, Karlsruhe GERMANY (Karlsruhe Moviemap 09)
2012: Going Places, Computer History Museum, Mountain View, CA (See Banff cameras as artifacts)
2009: Imaging Media, Zentrum fur Kunst und Medientechnologie (ZKM), Karlsruhe, GERMANY (Karlsruhe Moviemap 09)
2008: Degrees of Immersion, Helen Lindhurst Gallery, USC Rosky School of Fine Arts (Be Now Here Triptych)
2006: technoSpheres: FutureS of Thinking, Beall Center for Art and Technology, UC Irving (Fast Cheap GigaPixel Image)
2006: Sensorium colloquium, USC (Fast Cheap GigaPixel Image)
2005: The Art Formerly Known As New Media, Walter Phillips Gallery, Banff Centre, Banff, CANADA (See Banff)
2004: Interactions/Art and Technology, American Museum of the Moving Image, New York (See Banff)
2003: Future Cinema, Kiasma Museum of Contemporary Art, Helsinki, FINLAND (Be Now Here)
2002-3: Future Cinema, Zentrum fur Kunst und Medientechnologie (ZKM), Karlsruhe, GERMANY (Be Now Here)
2002: Navigate @ Art, Automobil Forum Unter den Linden, Berlin, GERMANY (Karlsruhe Moviemap)
2001: ArtSale 2001, The Lab, San Francisco (sortitout.org)
2000: ArtSale 2000, The Lab, San Francisco (Predictions)
1998: Inventing Experience, The Tech Museum of Innovation, San Jose (See Banff and Be Now Here)
1998: Exploding Cinema, International Film Festival, Rotterdam, NL (Be Now Here)
1997: Art in the Anchorage, Creative Time, New York (Be Now Here)
1997: Dallas Video Festival, Dallas Museum of Art (See Banff)
1997: Best of Dallas Video Festival, LA Film Forum, Los Angeles (compilation video)
1997: Finding the Fulcrum (Leonardo's 30th Anniversary Show), 111 Minna Gallery, San Francisco (Eyepiece)"
1996: Digital Bayou, Siggraph '96, New Orleans (Be Now Here)
1995: Interaction '95, International Academy of Media Arts and Sciences (IAMAS), Gifu, JAPAN (Karlsruhe Moviemap)
1995: Old Glory, Santa Monica Museum of Art (No State)
1994: Old Glory, Capp Street Project, San Francisco (No State)
1994: International Symposium on Electronic Art (ISEA) 94, Museum of Contemporary Art, Helsinki, FINLAND (See Banff)
1994: Mill Valley Film Festival (See Banff)
1994: Walter Phillips Gallery, Banff Centre for the Arts, CANADA (See Banff)
1994: Film Academy (w/ISEA), St. Petersburg, RUSSIA (Virtuality, Inc.)
1993: Multimediale 3, Zentrum fur Kunst und Medientechnologie (ZKM), Karlsruhe, GERMANY (EVE project)
1992: G-Tech Exhibit, Siggraph '92, Chicago (Field Recording Studies)
1992: The Culture and Science of Finding Your Way, Exploratorium, San Francisco (Karlsruhe Moviemap)
1992: Images du Futur '92, Montreal, CANADA (Karlsruhe Moviemap)
1992: Triennale di Milano, ITALY (EAT and Karlsruhe Moviemap)
1992: Futures Scenarios, ACM SigCHI Conference, Monterey (Virtuality, Inc.)
1991: Tomorrow's Reality Gallery, Siggraph '91, Las Vegas (EAT and Karlsruhe Moviemap)
1991: MultiMediale 2, Zentrum fur Kunst und Medientechnologie (ZKM), Karlsruhe, GERMANY (Karlsruhe Moviemap)
1991: Art and Multimedia, Center for Advanced Visual Studies (CAVS), MIT (compilation video)
1990: Cyberthon Conference, Point Foundation, San Francisco (EAT, Golden Gate Flyover, and Virtual Object Series)
1990: Virtual Reality Panel, Siggraph '90, Dallas (Virtuality Inc.)
1989: Mill Valley Film Festival (EAT)
1989: San Francisco Art Institute (EAT)
1989: Kanagawa International Art and Science Exhibition, JAPAN (Golden Gate Flyover)
1989: Exploratorium at the World Financial Center, New York (Golden Gate Flyover)
1988: Exploratorium at the Kennedy Center for the Performing Arts, Washington, DC (Golden Gate Flyover)
1987: The Situated Image, Mandeville Art Gallery, UC San Diego (Computer Eyepiece)
1986: Silicon Valley Electronic Arts Festival, Institute of Contemporary Art, San Jose (Computer Eyepiece)
1986: American Association of Anthropology (AAA) annual conference, Philadelphia (compilation video)
1986: Art New Vision '86, Nippon High Technology Arts Festival, Tokyo, JAPAN (compilation video)
1985: US Pavilion, EXPO '85, Tsukuba, JAPAN (Siggraph Videodisc)
1984: Ann Arbor Film Festival (Computer Eyepiece)
1984: The Artist As A Young Machine, Ontario Science Center, Toronto, CANADA (Computer Eyepiece)
1984: San Francisco International Video Festival (Computer Eyepiece)

1983: Siggraph '83 Artshow, Detroit (Computer Eyepiece)
 1982: Palo Alto Film Festival (All My Worldly Things)
 1981: SF Art Institute Film Festival (Eyepiece and Moving Movie)
 1981: Centervideo, American Center, Paris, FRANCE (Babies on the Subway)
 1981: CenterVideo, Koelnischer Kunstverein, Cologne, Germany (Babies on the Subway)
 1981: CenterVideo, Kunsthaus, Zurich, SWITZERLAND (Babies on the Subway)
 1980: New York Avant Garde Festival (Eyepiece)
 1980: Beyond Object, Aspen Art Museum (Moving Movie)
 1980: Council for the Arts annual meeting, MIT (Talking Head)
 1980: SF Art Institute Film Festival (All My Worldly Things)
 1980: CenterScreen Series, Harvard University (All My Worldly Things)
 1979: Ann Arbor Film Festival (All My Worldly Things)
 1978: The Mall, Washington, DC (Centerbeam)
 1977: Documenta 6, Kassel, GERMANY (Centerbeam)

Invited Presentations

290 (06/21): Intro to VR/AR: Past, Present, Future, Shanghai Pudong Public Library, CHINA.
 289 (01/21): Online PhD seminar, SmartLab Academy, University College Dublin, IRELAND.

288 (09/20): Kickoff Speaker, "Being Where You're Not," Interactive Telecommunications Program (ITP), NYU.

287 (11/19): Community Forum Organizer, "The Role of the Arts in the Tech of Tomorrow," San Francisco Art Institute.
 286 (07/19): "Bird of a Feather" Presenter, "TeleWindow: an NYU Shanghai Research Project," Siggraph, Los Angeles.
 285 (05/19): Invited Speaker, "They're Different! VR Art Work at Google Silicon Valley and at NYU Shanghai," HFG Karlsruhe University of Arts and Design, Germany.
 284 (05/19): Invited Speaker, "They're Different! VR Art Work at Google Silicon Valley and at NYU Shanghai," ZHDK Zurich University of the Arts, Switzerland.

283 (11/18): Invited Speaker, "NYU SHANGHAI Interactive Media Arts: VR Case Studies," Forum for Development of City Innovation System and Reform of Talent Training Mode, East China Normal University, Shanghai, China.
 282 (10/18): Invited Speaker, "Subversion and Inheritance of VR Films and Television Production," 2018 World Conference on VR Industry, Nanchang, China.
 281 (08/18): Invited Speaker, "Students Pushing Boundaries: VR Research during Development-Driven Times," Shanghai Design Week, China.
 280 (06/18): Invited Speaker, "VR dot edu: Some Notes on the Role of Academia during a Frenzy," NYU Abu Dhabi.

279 (12/17): Salon Keynote, "The Future of VR," Global Cre8 Summit, Shenzhen, China.
 278 (09/17): Faculty Lunch Speaker Series, "VR / AR: When's the Gold? (And Where's the Art?)," NYU Shanghai, China
 277 (05/17): Opening Keynote, "Besides the Screen: VR, Volumetric Cinema, and Space Control", Vitoria, Brazil.
 276 (04/17): Opening Keynote, "Collisions: VR, Immersive Art, and Technology", The 14th Factory / VRLA, Los Angeles.

275 (12/16): Visiting Instructor, "Virtual Reality for Artists", Objectifs Centre for Photography and Film, Singapore.
 274 (12/16): Opening Keynote, "The Digital in Cultural Spaces", National Museum of Singapore
 273 (10/16): Invited Speaker, Digital Futures program, Ontario College of Art and Design, Toronto
 272 (10/16): Opening Keynote, First Virtual Reality Creative Doc Lab, Canadian Film Centre, Toronto
 271 (10/16): Opening Keynote, "Weird Reality: New and Independent Visions for Head-Mounted Art and Code," CMU
 270 (09/16): Invited Speaker, "Technologies of Presence" class of Scott Fisher, USC School of Cinematic Arts
 269 (09/16): Invited Speaker, "Social Media / Social Movements" class of David E. Harris, UC Berkeley School of Business
 268 (02/16): Invited Speaker, "Cameras, Interactivity, and VR", NYU Interactive Telecommunications Program

267 (09/15): Panel Chair, Virtual Reality's Creative Landscape," Hacking Arts 2015, MIT Media Lab
 266 (09/15): Invited Speaker, "Thereness: On Place and Virtual Reality," Designers & Geeks, San Francisco
 265 (06/15): Invited Speaker, "Art & Invention", Livingroom Light Exchange, San Francisco
 264 (05/15): Invited Speaker, "Art & Invention", Gray Area Art Festival, San Francisco
 263 (04/15): Invited Critiquer, Art and Design class of Camille Utterback, Stanford University
 262 (04/15): Invited Speaker, Film class of James J. McKee, San Francisco Art Institute
 261 (02/15): Invited Speaker, "Stereo Pano Ciné", Friday Tech Talk (first ever), Jaunt VR, Palo Alto

260 (11/14): Invited Speaker, ("Art & Invention") Convergence: Intl Summit on Art+Technology, Banff Centre, Canada
 259 (11/14): Invited Speaker, "VR Form & Content", Douglas Trumbull Studios, Berkshire Hills, MA
 258 (11/14): Invited Speaker, "Art & Invention", Bennington College, VT
 257 (11/14): Invited Speaker, "VR Form & Content", Runway / Twitter, San Francisco
 256 (11/14): Invited Speaker, "VR Form & Content", NewInc / New Museum, NY
 255 (11/14): Invited Speaker, "Art & Invention", Interactive Telecommunications Program, NYU
 254 (11/14): Invited Speaker, "VR Form & Content", Edwin Schlossberg Interactive, NY
 253 (11/14): Invited Speaker, "Art & Invention", The New School, NY
 252 (11/14): Invited Speaker, ("VR Form & Content"), Entertainment Technology Center, USC Cinema
 251 (10/14): Invited Speaker, "Art & Invention", Arts and Technology Program, UT Dallas
 250 (10/14): Invited Speaker, ("Thereness") "Image as Location" conference, UC Berkeley
 249 (10/14): Invited Speaker, "Art & Invention", Stamps School of Art and Design, UMich Ann Arbor
 248 (05/14): Keynote, First International Symposium on Immersive Creativity, SAT, Montreal
 247 (04/14): Invited Speaker, "Cycloramas Re-Imagined", Institute for Creative Technology, USC
 246 (01/14): Invited Speaker, Environmental Visions Symposium, Nanyang Technological University, Singapore

245 (09/13): Opening remarks ("I used to think patents were cool.") Patent Pending art exhibition, Zero1 Garage, SJ
 244 (06/13): Opening Keynote, ISEA 2013, 19th International Symposium on Electronic Art, June 11, Sydney
 243 (06/13): Master Class, X Media Lab, College of Fine Arts, UNSW, Sydney
 242 (06/13): Keynote, "Defusing Glass: Google's Critical Mission", X MediaLab, Museum of Contemporary Art, Sydney
 241 (06/13): Seminar, LaSalle College of Art, Singapore
 240 (06/13): Seminar, Arts and Creativity Lab, National University, Singapore
 239 (05/13): Seminar, "Three 'Slow' Global Media Projects", Creative Media Centre, City University, Hong Kong
 238 (05/13): Invited Speaker, "Truth, Beauty, Freedom, and Money" art exhibition, K11, Shanghai, China
 237 (04/13): Invited Speaker, Design Week, American University Sharjah, UAE

 236 (06/12): Keynote, XMediaLab Global Media Ideas, Sydney Opera House
 235 (06/12): Panelist, "Unreal Labs and Awesome Projects," Vivid Sydney, Sydney Museum of Contemporary Art
 234 (02/12): Invited Speaker, "Mediated Environments" class, The New School (via video)

 233 (06/11): Invited Speaker, "Representing Earth", ITP Camp II, NYU
 232 (05/11): Invited Speaker, "Place Representation and the 'One Earth' Model", Media Lab, MIT
 231 (03/11): Presenter, "Art as a Way of Knowing" conference, NSF and Exploratorium, San Francisco
 230 (02/11): Invited Speaker, "Mediated Environments" class, The New School (via video)

 229 (11/10): Co-Host, "Movie Tagger" Salon, USC
 228 (06/10): Invited Speaker, "Representing Earth", ITP Camp, NYU
 227 (04/10): Keynote, Annual Research Conference, University for the Creative Arts, London, UK
 226 (03/10): Poster and short presentation, "True Tally", International Conference on Computational Photography, MIT
 225 (03/10): Invited Speaker, "Representing Earth", Stanford HCI Seminar, Stanford University
 224 (02/10): Invited Speaker, "Mediated Environments" class, The New School (via video)

 223 (03/09): Invited Speaker, "Just Like Being There?", University of Montreal, CANADA
 222 (01/09): Panelist, "The Big Picture," Netherlands Architecture Inst. & Intl. Film Festival Rotterdam, NETHERLANDS

 221 (10/08): Opening Speaker, Second International conference on image science, Danube University, Krems, AUSTRIA
 220 (06/08): Participant, "Conversations on authors, institutions and ties between the two", Kitchen Budapest, HUNGARY
 219 (04/08): "Viewfinder: How to Seamlessly "Flickrize" Google Earth", Google Tech Talk
 218 (02/08): Immersion and It's Applications: 360 Degree of Difference, Vision and Voices panel, USC

 217 (09/07): Keynote, "Media aRt&D", xMediaLab Workshop, Singapore
 216 (08/07): Panel Chair, "Artists have changed," for Leonardo journal, Siggraph, San Diego
 215 (05/07): "The 'I' in CHI" panel, Computer/Human Interaction (CHI) Conference, San Jose

 214 (10/06): Opening Seminar for the Art and Technology Planning Group, NYU
 213 (09/06): PICNIC '06 Cross Media Week, Amsterdam, NETHERLANDS
 212 (08/06): Third Annual Seminar in Experimental Critical Theory, UC Irving
 211 (07/06): Institute for Creative Technology, USC
 210 (06/06): Big Picture Summit, National Geographic Society, Washington, DC
 209 (05/06): Department of Design | Media, UCLA
 208 (03/06): School of Art, USC

 207 (10/05): Frontiers in Optics, the 89th Annual Meeting of the Optical Society of America, Tucson
 206 (10/05): REFRESH! First International Conference on Media Arts, Science, and Technology, Banff Centre, CANADA
 205 (9/05): School of Fine Arts, San Francisco State University
 204 (4/05): IMC Expo, Chelsea Art Museum, New York
 203 (2/05): Vision Group, California Institute of Technology, Pasadena
 202 (2/05): Design Dialogues, Media Design Program, Art Center College of Design, Pasadena

 201 (12/04): EALA Presents, Electronic Arts, Marina del Ray
 200 (12/04): Big Picture Summit, Interactive Telecommunications Program, NYU
 199 (11/04): Interactive Media Division Forum, USC
 198 (11/04): 12th International Panorama Conference, Hunter College, New York
 197 (11/04): Art, Science, Technology Forum for National Science Week, Gijón, SPAIN
 196 (11/04): Institute for Creative Technologies, USC
 195 (09/04): Ars Electronica, Linz, AUSTRIA
 194 (08/04): Siggraph '04, Los Angeles
 193 (07/04): First International Conference on Design Computing and Cognition (DCC '04) Workshop, MIT
 192 (05/04): Digital Avant-Garde, Celebrating 25 Years of Ars Electronica, Austrian Cultural Forum, New York
 191 (02/04): Dolphin Cognition Workshop, Wildlife Conservation Society, NYC Zoo, New York
 190 (01/04): Interactive Media Division, USC School of Cinema-Television Visiting Speaker Series

 189 (11/03): Role of the Arts in a Research University (open mic statement to the Presidents of NYU and Columbia), NYU
 188 (11/03): National Art and Technology Network meeting, Arizona State University, Tempe
 187 (10/03): Intro Class, Interactive Telecommunications Program (ITP), NYU
 186 (06/03): ZeroOne Foundation, Palo Alto
 185 (06/03): Intel Research Invited Seminar Speaker Series, Berkeley
 184 (04/03): Exploratorium, San Francisco
 183 (04/03): Friday Seminar Series, Interactive Telecommunications Program (ITP), NYU
 182 (02/03): TTI Vanguard Conference, San Jose
 180 (01/03): Dublin Arts and Technology Association (DATA), Dublin, IRELAND

179 (10/02): Computer Art Department, School of the Visual Arts (SVA), New York
 178 (10/02): Intro Class, Interactive Telecommunications Program (ITP), NYU
 177 (10/02): Future Cameras, Computer Science Department, NYU
 176 (04/02): Art, Technology, and Culture Colloquium, UC Berkeley
 175 (04/02): Numer.02 Interactive Design Conference, Centre Pompidou, Paris, FRANCE
 174 (04/02): Media Lab Europe, Dublin, IRELAND
 173 (04/02): Digital Arts Symposium, College of Fine Arts and Center for Consciousness Studies, U Arizona, Tucson
 172 (01/02): InterMedium Institute, Osaka, JAPAN

 171 (12/01): DoCoMo House, Keio University, Tokyo, JAPAN
 170 (11/01): Ways of Working Seminar, Arts Council of England, London, UK
 169 (11/01): Future of Creativity Symposium Discussant, AAC / School of the Art Institute, Chicago
 168 (10/01): Embedding Media in Culture Panel, Interaction '01, IAMAS, Gifu, JAPAN
 167 (10/01): International Academy of Media Arts and Sciences, Gifu, JAPAN
 166 (06/01): Bridges Symposium, USC / Banff Centre, Los Angeles
 165 (02/01): Center for Digital Media, SF Art Institute

 164 (11/00): Art Frontiers: Partners in Art and Industry Symposium, Ground Zero / The Kitchen, Menlo Park, CA
 163 (10/00): Arts Panel, First MIT Media Lab Reunion
 162 (10/00): Looking at San Francisco Panel, "Really Wired" exhibition, New Langton Arts, San Francisco
 161 (10/00): Master Viewpoints Presentation, Edgewise Conference, New York
 160 (05/00): Green Interfaces Panel, Planetnetwork Conference, Presidio, San Francisco
 159 (05/00): Bernard Q. Nietschmann Memorial, Faculty Club, UC Berkeley
 158 (05/00): Center for Interactive Art, SFSU
 157 (04/00): Digital Work and Play Symposium, Mission College, Santa Clara
 156 (03/00): At What Stage Art and Technology Symposium, The Kitchen, New York
 155 (03/00): Design Department, UCLA
 154 (02/00): Art Dept, Mills College, Oakland
 153 (02/00): New Media: Where To Now? Panel, The Lab, San Francisco
 152 (02/00): Computer Science Department, UNC, Chapel Hill

 151 (06/99): Design Digital Theme, International Design Conference, Aspen
 150 (04/99): Lannan Foundation, Geography Dept, UC Berkeley
 149 (03/99): Arts Dedication Ceremony, The Tech Museum of Innovation, San Jose

 148 (11/98): Artists and Technologists Working Together Panel, ACM UIST Conference, San Francisco
 147 (11/98): Ecole des Beaux Arts Aix en Provence, FRANCE
 146 (11/98): VSMM '98, Gifu, JAPAN
 145 (09/98): Center for Advanced Visual Studies (CAVS) Series, MIT
 144 (05/98): Virtual Museums on the Internet Symposium, Salzburg, AUSTRIA
 143 (04/98): Scripted Spaces Conference, Art Center, Pasadena
 142 (03/98): Design Department, UCLA
 141 (02/98): Spatial and Collaborative Cinema Panel, International Film Festival, Rotterdam, NL

 140 (12/97): Conceptual Design/Information Arts Dept, SFSU
 139 (11/97): Global Jukebox presentation, ITP, NYU
 138 (10/97): Art Dept, UC Santa Barbara
 137 (10/97): Multimedia Series, Santa Barbara Community College
 136 (10/97): Art Dept, Art Center, Pasadena
 135 (10/97): Virtual Worlds Beyond the Screen Lecture Series, SF MOMA
 134 (09/97): Telepresence Panel, International Symposium of Electronic Art (ISEA), Chicago
 133 (08/97): Multimedia Studies Program, SFSU
 132 (07/97): Consciousness Reframed Conference, CAiiA, University of Wales, Newport, WALES
 131 (06/97): Multimedia Summit, Banff Centre for the Arts, CANADA
 130 (02/97): Stereoscopic Displays and Applications, SPIE, San Jose
 129 (02/97): Fleming Fund Dinner Series, Villa Montalvo, Saratoga, CA
 128 (02/97): New Genres Dept, SF Art Institute
 127 (02/97): Computer-Related Design Dept, Royal College of Art, London, UK

 126 (11/96): Visual Research Conference (SVA), American Anthropological Assn Annual Meetings, San Francisco
 125 (09/96): Digitale '96, Media Academy, Cologne, GERMANY
 124 (05/96): Art@Science Symposium, Advanced Telecommunications Research (ATR), Nara, JAPAN
 123 (05/96): International Academy of Media Arts and Sciences (IAMAS), Gifu, JAPAN
 122 (05/96): Center for Design Research, Stanford University
 121 (04/96): Arts Dept, UC Santa Cruz
 120 (02/96): Governor's Conference on the Arts, Los Angeles
 119 (01/96): Urban Site Panel, Yerba Buena Center for the Arts, San Francisco

 118 (11/95): Geography Dept, UC Berkeley
 117 (11/95): Seminar on Cinema Research, Directors Guild/American Museum of the Moving Image, Queens, NY
 116 (08/95): Museums of the Future Panel, Siggraph 95, Los Angeles
 115 (05/95): Oksnoen 95 Symposium on "Presence," Oksnoen, NORWAY

 114 (11/94): NewMediaLogia Symposium, Moscow, RUSSIA
 113 (10/94): Artists in Multimedia Panel, ACM Multimedia Symposium, San Francisco
 112 (08/94): Film Academy (in conjunction with ISEA '94), St. Petersburg, RUSSIA

111 (06/94): Virtual Café (via picturephone), McLuhan Program, U Toronto, CANADA
 110 (05/94): Museum of the Future Symposium, University of Ferrara/UC Berkeley, Bologna, ITALY
 109 (05/94): Art and Virtual Environments Symposium / Cyberconf 4, Banff Centre, CANADA
 108 (04/94): Center for Digital Multimedia, NYU
 107 (03/94): Espace Electra, U Paris 1+8 Joint Series, Paris, FRANCE

 106 (11/93): Explorations in New Realities, Dallas Video Festival, Dallas Museum of Art
 105 (05/93): Cyberspace 3 Conference, Austin
 104 (05/93): Beaux-Arts, Paris, FRANCE
 103 (03/93): Dept of Architecture, UC Berkeley
 102 (03/93): Art Talk, Xerox PARC, Palo Alto
 101 (02/93): Interface II Conference, Hamburg, GERMANY
 100 (02/93): College of Arts and Sciences, USF

 99 (11/92): Human Computer Interaction Seminar, Stanford University
 98 (11/92): Navigation Series, Exploratorium, San Francisco
 97 (10/92): CyberArts Conference, Pasadena
 96 (09/92): Center for Creative Imaging, Camden, ME
 95 (06/92): Virtual Travel Panel, Travel and Tourism Research Association (TTRA) Annual Conference, Minneapolis
 94 (06/92): VR and Art Panel, YLEM, Exploratorium, San Francisco
 93 (05/92): Design for Conversations Seminar for duPont, Pangaro Inc., Boston
 92 (01/92): Artistic Experimentation with Multimedia Panel, MacWorld EXPO, San Francisco

 91 (11/91): Bioapparatus Residency, Banff Centre, CANADA
 90 (10/91): Bits of Art series, School of Art, University of Cincinnati
 89 (10/91): Pioneer LDC, Tokyo, JAPAN
 88 (10/91): Art and Multimedia panel, International Conference on Multimedia '91, Tokyo, JAPAN
 87 (10/91): Savannah College of Art and Design
 86 (10/91): Center for Electronic Art, San Francisco
 85 (08/91): First Moscow International Workshop on Human-Computer Interaction, Moscow, USSR
 84 (08/91): Virtual Reality Summer Seminar, SF Art Institute
 83 (06/91): Center for Electronic Art, San Francisco
 82 (05/91): MultiMediale 2, ZKM, Karlsruhe, GERMANY
 81 (04/91): Cyberspace II Conference, Santa Cruz
 80 (03/91): ITVA panel, San Francisco
 79 (03/91): IBM (DPS Project), Los Angeles
 78 (02/91): Center for Electronic Art, San Francisco

 77 (12/90): Interactive Multimedia Association Developer's Forum, Scottsdale, AR
 76 (10/90): Cyberthon Conference, San Francisco
 75 (10/90): Center for Electronic Art, San Francisco
 74 (08/90): Interface Panel, Siggraph '90, Dallas
 73 (08/90): Center for Electronic Art, San Francisco
 72 (07/90): Multimedia '90 Conference, Hakone, JAPAN
 71 (07/90): Center for Electronic Art, San Francisco
 70 (04/90): Gender and Cultural Bias Panel, Computer Games Developer's Conference, San Jose
 69 (03/90): Whittle Communications, Knoxville
 68 (03/90): Pacific Film Archive, UC Berkeley
 67 (02/90): Conceptual Design Dept, SFSU

 66 (12/89): Whittle Communications, Chicago
 65 (12/89): St Louis Zoo
 64 (11/89): US International Cultural and Trade Center Commission, Washington DC
 63 (11/89): Lucasfilm/Apple Umbrella (LUAU) talk, Headlands Center for the Arts, Marin Headlands, CA
 62 (11/89): Art Dept, SFSU
 61 (10/89): Autodesk Corporation, Sausalito
 60 (10/89): Society of Motion Picture and Television Engineers (SMPTE) Conference, Los Angeles
 59 (10/89): Avenues Toward Artificial Reality Panel, Intertainment '89 conference, New York
 58 (09/89): Film Dept, SF Art Institute
 57 (02/89): American Society of Magazine Photographers, San Francisco
 56 (02/89): Developing Interactive Video Workshop, Aspen Institute, Wye Woods, MD

 55 (11/88): Apple Developer's Conference, Cupertino
 54 (10/88): Production Issues Panel, Intertainment '88 Conference, New York
 53 (08/88): Museum of Science and Industry, Chicago
 52 (08/88): Multi Image Association, Phoenix
 51 (07/88): Open School, Apple Vivarium Project, Los Angeles
 50 (06/88): Fluid Media Conference, Apple Computer, Cupertino
 49 (05/88): Beyond CAD Symposium, American Institute of Architects, San Francisco
 48 (02/88): Multimedia Authoring Panel, Microsoft Third International CD-ROM conference, Seattle

 47 (12/87): Lotus Development Corporation, Cambridge
 46 (10/87): Mattel Inc., Hawthorne, CA
 45 (09/87): Interactive Video for Museums Workshop, Boston Museum of Science
 44 (07/87): Society of Motion Picture and Television Engineers (SMPTE), San Francisco Chapter
 43 (06/87): High Technology Media Panel, American Association of Museums Annual Conference, San Francisco

42 (06/87): Emerging Media Landscape Conference, Diaquest Corporation, Berkeley
 41 (05/87): HOK Associates, St Louis
 40 (03/87): Athens International Video Festival, Athens, OH

39 (10/86): Microsoft Corporation
 38 (10/86): Advanced Decision Systems, Santa Clara
 37 (07/86): Summer Arts '86 Conference, Cal State University, San Luis Obispo
 36 (06/86): School of Medicine, Stanford University
 35 (05/86): Panavision, Tarzana, CA
 34 (03/86): Film/Video Program, Univ of Michigan

33 (12/85): Film/Video Dept, Cal Arts
 32 (12/85): Interactive Videodisc Consortium, San Francisco
 31 (11/85): California Academy of Science, San Francisco
 30 (10/85): MIT Media Lab
 29 (04/85): Dept of Geography, UC Berkeley
 28 (03/85): International Interactive Communications Society (IICS), San Francisco Chapter
 27 (02/85): Centre Mondial, Paris, FRANCE
 26 (02/85): Ecole National Superior des Art Decoratif, Paris, FRANCE
 25 (02/85): Mirror Systems, Cambridge

24 (11/84): First Annual Hacker's Conference, Marin Headlands, CA
 23 (06/84): 4th grade class, South Elementary School, Hingham, MA
 22 (04/84): Renan Productions, Los Angeles
 21 (03/84): Dept of Education, University of Michigan
 20 (02/84): Friends of the Earth, San Francisco
 19 (01/84): SPIE Conference, Los Angeles
 18 (01/84): Videodisc Workshop, Bay Area Video Coalition (BAVC), San Francisco

17 (01/83): Warner Brothers Records, Los Angeles

16 (12/82): Bank of America, San Francisco
 15 (07/82): World Future Society Fourth General Assembly, Washington DC
 14 (06/82): International Television Association (ITVA), Houston chapter
 13 (04/82): AEC Seminar, Engineering News-Record, Denver
 12 (04/82): AEC Seminar, Engineering News-Record, Houston
 11 (03/82): Landor Associates, San Francisco
 10 (03/82): Math Imagery Conference, UC Santa Cruz
 9 (02/82): New Directions/New Dimensions Showcase, Diaquest Corporation, Berkeley

8 (12/81): Office of the President, National Geographic Society, Washington DC
 7 (10/81): Graphics Gathering, Stanford University
 6 (09/81): Video Department, California College of Arts and Crafts, Oakland
 5 (08/81): Still-Frame and Optical Transfer, Summer Session on Interactive Videodiscs, MIT
 4 (08/81): Videodisc Cinematography, Summer Session on Interactive Videodiscs, MIT
 3 (05/81): WED Enterprises (Disney Research), Glendale, CA

2 (03/80): Center for Advanced Visual Studies, MIT
 1 (01/80): Art and Perception Conference, Dept of Psychology, MIT