

Sha Xin Wei Curriculum Vitae

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Biographical Information

Employment History

Associate Professor. Faculty of Fine Arts, Concordia University, 2005 - present.

Canada Research Chair, Media Arts and Sciences, Concordia University, 2005 - present.

Director, Topological Media Lab, 2001 - present.

Assistant Professor. School of Literature, Communication and Culture, Center for New Media, and Graphics, Visualization & Usability Center, College of Computing, Georgia Institute of Technology, 2001 - 2005.

1998-1999. Researcher, Interval Research Corporation.

Basic research in mathematics of unsupervised learning. Developed and disseminated methods for computer vision based on geometric evolution.

1995-1998. Human-Computer Systems Architect and Senior Researcher, Academic Systems Development Project, Stanford University.

1991-1995. Systems Architect and Technical Lead.

1985-1990. Project Leader, Framework Developer, Course Authoring Tools Project.

1984-1985. Project Lead, Scientific Programmer, Faculty Author Development Project.

Academic History

Academic History

Mellon Fellow, Gray Center for Arts and Inquiry, Chicago University, 2012-2013.

Visiting Scholar, Department of French and Italian, Stanford University, 2009-2010.

Visiting Scholar, History of Science Department, Harvard University, 2004-2005.

Visiting Scholar, Program in Science, Technology, and Society, MIT, 2004-2005.

Ph.D. Mathematics Department, Stanford University, 2001. Field: Critical and cultural studies of mathematics, science and technology.

Dissertation

Dissertation: Differential Geometric Performance & the Technologies of Writing. (295 pp.)

Advisor: Rafe Mazzeo (Mathematics). Readers: Tim Lenoir (History and Philosophy of Science) and Terry Winograd (Computer Science).

Visiting Scholar - History and Philosophy of Science, Stanford, 1998-2000.

M.A. Mathematics, Stanford University, 1981

Academic History	A.B. Mathematics cum laude, Harvard University, 1979.
	<p><i>Research Interests</i></p> <p>Critical studies of technology and of media arts and sciences; gesture, materiality, performance and architecture.</p> <p>Computer science: responsive media spaces, topological and computational media, wearables, gesture-based interaction; visualization and simulation.</p> <p>Continuum and process philosophies. Phenomenology of differential geometry.</p>
Languages Spoken	English (native), Italian (fluent); French (reading), Chinese (mother), American Sign Language.
Research	Research
Publications	<p><i>Books Special Volumes</i></p> <p><u>Poiesis and Enchantment in Topological Matter</u>, monograph, MIT Press (anticipated publication 2013).</p> <p>Special Issue: <u>Poetic and Speculative Architectures in Public Space</u>, <i>AI & Society</i> 26.2, Springer-Verlag, May 2011.</p> <p><i>Chapters in Books</i></p> <p>"X is for Signature," in "Ink: V is for Vermillion as described by Vitruvius, An A to Z of Ink in Architecture," Graduate School of Architecture, Planning + Preservation, Columbia University. (forthcoming 2013)</p> <p>"Prospective Architectures of Enchantment," in <u>70 Jähren Festschrift Dedicated to Professor Helgi-Ion Schweizer</u>, 2009.</p> <p>"Whitehead and Poetical Mathematics," in <u>Deleuze, Whitehead and the Transformations of Metaphysics</u>. eds. Andre Cloots & Keith A. Robinson. (Belgium: KVAV, 2005), pp. 107- 116.</p> <p>"Poetics of Performative Space," in <u>Cognition, Communication and Interaction: Transdisciplinary Perspectives on Interactive Technology</u> (Human-Computer Interaction Series), ed. Satinder Gill, Berlin: Springer-Verlag, 2007, pp. 549-566.</p> <p>Timothy Lenoir and Sha Xin Wei, "Authorship and Surgery: The Shifting Ontology of the Virtual Surgeon," in Bruce Clarke and Linda Dalrymple Henderson, ed., <i>From Energy to Information: Representation in Science and Technology, Art, and Literature</i>, Stanford University Press, 2002, pp. 283-308, pp. 415-419.</p> <p>"Cathedral, Tool or Framework? MediaWeaver As a Distributed Scholarly Workspace," in <i>Augmenting Comprehension: Digital Tools and the History of Ideas</i>, ed. Dino Buzzetti, Giuliano Pancaldi, and Harold Short, (London: Office for Humanities Communication, Kings College London), 2004, pp. 101-112.</p> <p><i>Works in Progress: Books</i></p> <p><u>Mathematics, Writing, Poiesis</u>, editor, collection of essays by collaborators in literary studies and philosophy, work in progress.</p>

Publications

Phenomenology of Differential Geometric Writing, favorably reviewed by MIT Press, under revision.

Window Washing, art book, Essay on writing and time. (2000 - 2010)

Works in Progress: Invited Chapters in Books

"Q is for Quicken," in Puppets and Animating Objects, Mark Sussman

Refereed Publications
(students in italics)**Refereed Publications**

"Topology and Morphogenesis," Special Issue on a Topological Approach to Cultural Dynamics, ed. Celia Lury, *Theory, Culture and Society*, 29.4-5, July–September, Nottingham Trent: TCS Centre, 2012, pp 220–246.

"An Experiment in Autonomous Cultural Production", *AI and Society 25th Anniversary Special Issue*, London: Springer-Verlag, 2012. Online 10.1007/s00146-012-0416-0, 13 pp.

"The Atelier-Lab as a Transversal Machine," *Les études américaines à l'ère des médias numériques : nouveaux objets, nouvelles pratiques*, ed. Yves Abrioux, *Revue Française d'Études Américaines*, 2011/2, no. 128, p. 62-78, color plates I-VIII.

with *Michael Fortin, Navid Navab, Tim Sutton*, "Ozone: Continuous State-based Media Choreography System for Live Performance," *ACM Multimedia*, Firenze, October 2010, pp. 1383-1392.

"Calligraphic Video: Using the Body's Intuition of Matter," *Inaugural Issue of the International Journal of Creative Interfaces and Computer Graphics*, 2009.

Sha Xin Wei, *Michael Fortin, Jean-Sebastien Rousseau*, "Calligraphic Video: A Phenomenological Approach to Dense Visual Interaction," *ACM Multimedia*, Beijing China, 19-24 October 2009.

with *Doug Van Nort, David Gauthier, Marcelo M. Wanderley*, "Extraction of Gestural Meaning from a Fabric-Based Instrument," *ICMC International Computer Music Conference Proceedings*, 2007.

with *David Birnbaum, Freida Abtan, Marcelo M. Wanderley*, "Mapping and Dimensionality of a Cloth-based Sound Instrument," *Proceedings of Sound and Music Computing (SMC)*, Lefkada Greece, 11-13 July 2007.

"Poetics of Performative Space," *AI & Society* 21.4, in *20th Anniversary Birthday Issue: From Judgement to Calculation*, June 2007, pp. 607-624.

"Ethico-aesthetics in t* Performative Spaces," in *TRG: On Transient Realities and Their Generators*, eds. Maja Kuzmanovic and Tim Boykett, Kibla, 2006, pp. 22-39.

"Whitehead's Poetical Mathematics," *Configurations*, 13.1, 2005, pp. 77–94.

"Whitehead and Poetical Mathematics," In *Deleuze, Whitehead and the Transformations of Metaphysics*. eds. Andre Cloots & Keith A. Robinson. (Belgium: KVAV, 2005), pp. 107-116.

"The TGarden Experimental Performance Project," *Modern Drama*, Volume 48, Number 3,

Refereed Publications

- Special Issue: Technology, Toronto: University of Toronto Press, Fall 2005, pp. 585-608.
- Sha Xin Wei and Satinder Gill. "Gesture and Response in Field-Based Performance," 5th conference on Creativity & Cognition. Ed. University of Technology Sydney Ernest Edmonds, Australia. London: ACM, 2005. pp. 205-09.
- Chris Salter and Sha Xin Wei, "Sponge: A Case Study in Practice-Based Collaborative Art Research," 5th conference on Creativity & Cognition, ed. University of Technology Sydney Ernest Edmonds, Australia, London: ACM, 2005, pp. 92-101.
- "Differential Geometrical Performance and Poiesis," in Configurations, Vol 12, Number 1, Winter 2004, pp. 133-160.
- with Yoichiro Serita, Jill Fantauzza, Steven Dow, Giovanni Iachello, Vincent Fiano, Joey Berzowska, Yvonne Caravia, Delphine Nain, Wolfgang Reitberger, Julien Fistre, "Expressive Software and Ambient Media," in Adjunct Proceedings of UbiComp 2003, pp. 131-136.
- "Continuous Sensing of Gesture for Control of Audio-Visual Media," with Giovanni Iachello, Steven Dow, Yoichiro Serita, Tazama St. Julien, Julien Fistre, in ISWC 2003 Proceedings, pp. 236-237. <http://csdl2.computer.org/persagen/DLabsToc.jsp?resourcePath=/dl/proceedings/&toc=http://csdl2.computer.org/comp/proceedings/iswc/2003/2034/00/2034toc.xml>
- "Resistance Is Fertile: Gesture and Agency in the Field of Responsive Media," in Makeover: Writing the Body into the Posthuman Technoscape, Two-Part Special Issue, Baltimore: Johns Hopkins University Press, Part 2: Configurations, Vol 10, Number 3, Summer 2002, pp. 439-472.
- "Sustainable Arenas for Weedy Sociality | Distributed Wilderness," with Maja Kuzmanovic, Proceedings CPSR Directions and Implications of Advanced Computing Symposium in Seattle (DIAC 2002), pp. 113 - 119.
- "Speechpainting - An Architectural Medium," FineArtForum, October 2001, vol 15, no. 10.
- "Sponge, The Surface That Holds the Image is Unstable," with sponge, *éc/artsS:#2[00_01]*, Spécial: Textualités & Nouvelles Technologies, Fall 2000.
- Sha Xin Wei and Maja Kuzmanovic, "From Representation to Performance: Responsive Public Space," Proceedings CPSR Directions and Implications of Advanced Computing, Seattle Symposium (DIAC 2000).
- "The Virtual Edge – Tracing the Postmodern Surgeon," with Tim Lenoir, Proceedings of Energy To Information Conference in Austin, Texas, April 3-5, 1997.
- James Ze Wang, Gio Wiederhold, Oscar Firschein, Sha Xin Wei, "Content-Based Image Indexing and Searching Using Daubechies' Wavelets," *Int. J. on Dgiital Libraries* 1.4 (1998) 311-28.
- "Wavelet-Based Image Indexing Techniques with Partial Sketch Retrieval Capability." with James Ze Wang, Gio Wiederhold, Oscar Firschein, *Advances in Digital Libraries* (1997).
- "MediaWeaver and Networked Scholarly Workspaces." *Multimedia Systems Journal* 6.2 (1996) 97-111.

Refereed Publications

"MMDB: A Meta-testbed for Distributed Multimedia." Proceedings of AAAI Workshop Indexing and Reuse in Multimedia Systems (1994).

with Haas, Cathy, "Stanford American Sign Language videodisc project," in Proceedings of the Johns Hopkins National Search for Computing Applications to Assist Persons with Disabilities. Los Alamitos, CA : IEEE Comput. Soc. Pr. (1992), 41-44.

Technical Reports & Reviews**Technical Reports**

"TGarden Media Choreography System," with Blair MacIntyre, Graphics, Visualization and Usability Center, Georgia Institute of Technology, 2002.

"Oz Specification: A Media Evolution Engine Based on Hybrid Real-time Continuous and Discrete Dynamical Systems." Technical Report, School of Literature, Communication and Culture, Center for New Media, Georgia Institute of Technology, 2001.

"TG2002 Architecture." Technical Report, School of Literature, Communication and Culture, Center for New Media, Georgia Institute of Technology, 2001.

"The Blackboard As a Collaborative Learning Technology." Computer-Supported Collaborative Learning (2000).

"The Geometer's Workbench: An Experiment in Interacting with a Large, High Resolution Display," with Françoise Guimbretière and Terry Winograd, Stanford CS Technical Report CS-TR-2000-05, May 2000. (paper http://graphics.stanford.edu/~francois/video_stubs/Geometer.ram).

"Scholarly Spaces," Technical Report, Academic Software Development, Stanford University, 1996.

"An Object-oriented Multimedia, Distributed Meta-database," Technical Report, Academic Software Development, Stanford University, 1994.

Reviews Published

"The Tortoise and the Hare, Review of InterCall 2.0." *Mathematica Journal* 4.1, 1994, pp. 22-25.

"Review of Mathematica 2.0." *Computers and Mathematics, Notices of the American Mathematics*, 1992, pp. 428-430.

"Review of Milo." *Computers and Mathematics, Notices of the American Mathematics*, 1989, pp. 991-993.

Creation / Research
(students in italics)**Exhibitions Curated**

Vernissage and Open Atelier, Concordia University Blackbox: Butterfly Stroke: *Anahita Dehnonehie, Elena Frantova*; Numinal: *Flower Lunn*; Pendulum: *Rosalie Dumont Gagné*; Troglodyte: *Erik Conrad, Justyna Latek, Josée-Anne Drolet*, Hexagram-Concordia, Montreal Canada, 12 May 2006.

"Teleopolis," an exhibition on the mediated city, with works by Sha Xin Wei, Sponge, Erik Adigard, Ken Goldberg, Adrian Van Allen, David Karam & Gigi Obrecht, Steve Wilson, 2nd Wednesdays Art Series at the San Francisco Exploratorium, San Francisco USA, February 2002.

Exhibitions - Solo Creative Work**Exhibitions - Solo Creative Work**

- "Play and Morphogenesis II," Comprovisation - Improvisation Technologies in the Performing Arts, Concordia University, May 25, 2012, with *Navid Navab*.
- "Play and Morphogenesis I," gesture-mapping sound installation-performance, with *Navid Navab, Julian Stein*, Mondavi Center, UC Davis, April 12, 2012.
- "Il y a," 2 video-channel, 12 audio-channel membrane installation, Berkeley, with *Scott Minneman, Navid Navab, Morgan Sutherland, Jean-Sébastien Rousseau, Harry Smoak, Lina Dib, Josée-Anne Drolet*, 6-9 December 2012.
- "Il y a," 2 video-channel, 12 audio-channel membrane installation, premiered September 16, 2010, Stanford CCRMA Summer Concert, with *Scott Minneman, Navid Navab, Morgan Sutherland, Jean-Sébastien Rousseau, Harry Smoak, Lina Dib, Josée-Anne Drolet*.
- "Ouija New York," Installation-event, Harvestworks Inside, 20 Greene Street, New York City, May 15, 2009, with *Clarinda Mac Low, Morgan Sutherland, JS Rousseau, Navid Navab, TML*.
- "Meteor Shower," Responsive video installation, Portland Maine USA, November 1-4, 2007 with *Jean-Sébastien Rousseau, Tim Sutton, Emmanuel Thivierge*.
- "Cosmicomics Eureka," Suspended rear screen responsive video projection, Exhibited in Hexagram Blackbox, Concordia University, Montréal, May 2007, with *Jean-Sébastien Rousseau, Tim Sutton, Emmanuel Thivierge, Josée-Anne Drolet*. http://www.topologicalmedialab.net/joomla/main/index.php?option=com_content&task=view&id=151&Itemid=74
- "Cosmicomics Elektra," Suspended plasma screen responsive video installation, Exhibited in Usine-C, Part of Elektra Festival Montréal, May 2007 with *Jean-Sébastien Rousseau, Tim Sutton, Emmanuel Thivierge, Josée-Anne Drolet, Olfa Driss, Michael Fortin, Harry Smoak*. <http://www.topologicalmedialab.net/joomla/main/content/view/152/72/lang,en/>
- "Membrane: Van Nelle Ontwerpfabriek 1930," calligraphic video installation, DEAF04: Dutch Electronic Art Festival, V2, Rotterdam, November 9-21, 2004 with *Harry Smoak, Yoichiro Serita, Chris Salter, Delphine Nain, Maria Cordell*.
- "Membrane Memory," Responsive Video Projection Installation, "FIVE: Five Media, Five Faculty from Georgia Tech Architecture Program," Portman SunTrust Gallery, Atlanta, April-May 2004.
- "Expressive softwear for TGarden responsive playspaces," Ubicomp Demonstration 2003, with *Joey Berzowska, Arek Basirisk, Jill Fantauzza, Yvonne Caravia*.
- "Greeting dynamics using expressive softwear," Ubicomp Demonstration 2003, with *Jill Fantauzza, Stephen Dow, Giovanni Iachello, and Joey Berzowska*, pp. 131 - 136.
- "Soft architecture: ambient responsive media for collective and parallel play," Ubicomp Demonstration 2003," with *Yoichiro Serita, Pegah Zamani, Delphine Nain*.
- "Gestural audio softwear instruments," Ubicomp Demonstration 2003, with *Yoichiro Serita, Stephen Dow, Giovanni Iachello, Julian Fistre*.
- "Frank's Ears" speechpainting installation, Georgia State University, Atlanta, 2003.

Exhibitions - Solo Creative Work	<p>"Hubbub Study," speech-driven dynamic typography, Technopoetry Festival, Atlanta, 2002.</p> <p>"Plaza Teleopolis," speech & animated glyph projection, San Francisco Exploratorium, 2nd Wednesdays, 2002.</p>
Exhibitions - Group Creative Work	<p>Exhibitions Creative Work - Group (<i>asterisks mark students & apprentices</i>)</p> <p>CIDZIY (WYSIWYG 2012), David Gauthier, Marguerite Bromley, Joanna Berzowska, "Click! New Media Arts Festival" 20 April - 5 May 2012, Helsingor, Denmark.</p> <p>"Canada Research Chairs Lab Launch," Topological Media Lab, with Faculty of Fine Arts, Office of Research, Concordia University, February 15 - March 6, 2009.</p> <p>"E-Sea," installation (CNC cut cardboard, plastic cells, LEDs, photocells, ultrasound sensors), with Peter Hasdell, <i>Patrick Harrop</i>, Josh Bolchover, TML, Pneuma, ESKI and Dedale studios, eArts Festival, Shanghai China, October 17-22, 2008.</p> <p>"Pneus," installation (plastic cells, LEDs, photocells, sound processing, responsive video projection), with <i>Patrick Harrop</i>, TML, and Dedale Studio, Champ Libre Forest, Galerie Monopoli, Palais des Congres, Montreal, September 24-28, 2008.</p> <p>"Remedios Terrarium," responsive environment and installation-events, with Topological Media Lab and Dedale Studio, Fine Arts Gallery, Concordia University, Montréal, http://topologicalmedialab.net/remediosterrarium/, March 19 - April 4, 2008.</p> <p>"Visible Silence," performance-installation experiment, Livia Daza-Paris, Artistic Director, contribution: media artist and advisor, Studio 303 May 2006.</p> <p>"Kyo's Dream," with <i>Yvonne Caravia</i>, Kathleen Goonan, Brian Fisher, Flash animation and electronic publication, Horizon,14, 2005.</p> <p>"Sauna02" outdoor interactive immersion machine, with sponge, The Lab, San Francisco, 2002.</p> <p>"Sauna Study," interactive installation, with sponge, San Francisco Exploratorium, 2nd Wednesdays, 2002.</p> <p>"Slip," multi-perspective video installation, with Tirtza Even, Postmasters, New York City, USA, 2001.</p> <p><i>Creative and Technical Lead:</i> <i>TGarden Environments</i></p> <p>"TG2001," responsive environment, with TGarden Consortium, V2, Rotterdam, Netherlands, 2001.</p> <p>"TG2001," open lab, with TGarden Consortium, Ars Electronica 2001, Linz Austria.</p> <p>"TGarden," responsive environment: fabric, sound and projected video, Medi@terra 2000, Athens, Greece, with FoAM and sponge.</p> <p>"TGarden," responsive space, Siggraph 2000, New Orleans, with FoAM and sponge.</p> <p>Exhibitions - Group Creative Work</p> <p>"m3" digital art, 3d animation and video, with sponge, 1999.</p> <p>"m2" installation/performance/concert at The Lab, San Francisco, with sponge. Documented as interactive cdrom, 1998.</p> <p>"Global Demographics." Simulation & video, Mathematica Journal 2.4, 1994.</p> <p>American Sign Language Interactive Videodisc Project. With Cathy Haas. Videodisc and</p>

**Exhibitions - Group
Creative Work**

software, 1992.

Cabrera Physics Simulations: mechanics, electromagnetism, statistical mechanics, 1985-1986.

**Organized Workshops
Chaired Panels****Organized Conferences, Workshops & Chaired Panels**

"Movement-based Experiment with Temporal Textures," Hexagram Blackbox Workshop, Concordia University, February 17-28, 2012, with *F. Abtan, O. Faleh, N. Navab, J. Stein, K. Jung,*

"Gesture-bending Movement and Media," Topological Media Lab & Centre for Music and Science Workshop, February 6-13, Cambridge University, with Michael Montanaro, *Navid Navab, Satinder Gill.*

SECT VII, Rewired:Asia, University of Hawaii Manoa, August 1-10, 2011, Workshop Instructor.

Frankenstein's Ghosts, Blackbox Residency, Concordia University, with Michael Montanaro, Ann-Marie Donovan, Liselyn Adams, Blue Riders and TML June 2011.

Topology and Morphogenesis Workshop, with Yves Abrioux (Paris 8), Stamatia Portanova (University of London Birkbeck), Thomas Jellis (Oxford), Centre for Modern Thought, Aberdeen, 30 May 2011.

Third International Conference on Music and Gesture, March 5 – 6, 2010, Centre for Interdisciplinary Research in Music Media and Technology and Schulich School of Music, McGill University, Montreal, Canada. Co-organized with Marcelo Wanderley, Jon Wild.

Visiting Speaker Series: Brian Rotman (Ohio State University) "The Alphabet, Ghosts, Distributed Being Becoming Beside Ourselves in the Digital Era," Centre For Interdisciplinary Studies in Society and Culture Concordia, montreal, March 4, 2010.

"Whitehead+Cosmopolitics Panels III & IV: Novel Ecologies of Practice," Society for Literature, Science, and the Arts (SLSA), Atlanta, 5-8 November 2009.

"Soft Architecture Dedale Workshop," with *Patrick Harrop, Prof. Architecture U. Manitoba, H. Smoak, JA. Drolet, E. Sinyor, JS. Rousseau, T. Sutton, E. Thivierge, M. Sutherland, F. Lunn, & Dedale Studio, Hexagram-Concordia, Montreal Canada, 5-12 November 2007.*

"(Dis)orientation Platform of Relation," movement exercise, with Tom Lamarre, Phillipa Rothfield, Housing the Body - Dressing the Environment Event, Société des arts technologiques (SAT) Montréal, August 2007.

"Ouija Experiment on Collective Gesture in Responsive Media Spaces," Hexagram Blackbox Workshop, Concordia University, with Prof. Sha Xin Wei, Director; *Soo-yeon Cho, Choreographer; Dancers: Mike Croitoru, Kiani del Valle, Veronique Gaudreau, Rebecca Halls, Marie Laurier, Joannie Pharand, Olivia Foulke; Oxygen team: Jean-Sebastien Rousseau, Calligraphic video, videography, visual effects, production, Tim Sutton, Gestural sound design and programming, production, Emmanuel Thivierge, State engine, camera tracking, production, Filip Radonjic, Live ink painting; WYSIWYG Wearable Gestural Instruments team: Marguerite Bromley (XS Labs), Tapestry design and weaving, Elliot Sinyor (IDMIL McGill), Tapestry mechatronics, David Gauthier, Tapestry mechatronics, Freida Abtan, Sound design & programming,*

**Organized Workshops
Chaired Panels**

David Birnbaum (IDMIL McGill), Sound design & programming, *Doug van Nort* (IDMIL McGill), Gestural motion feature analysis; *Logistics: Josee-Anne Drolet*, TML Project Coordinator, production, videography, editing; *Harry Smoak*, TML Research Coordinator, production support, research advisor; *Ma Zhiming*, Production; *Faculty Co-Advisors*: Prof. Michael Montanaro, Contemporary Dance, Ouija movement experiment design, Prof. Marcelo Wanderley, IDMIL, McGill University, WYSIWYG gestural control of sound synthesis; Prof. Joey Berzowska, XS Labs, Interactive textiles; June 21 - July 20, 2007.

"SPECTROPIA," Toni Dove, Canada Research Chair Hosted Visiting Artist Lecture, Concordia University, 18 May 2007.

"Creative research and the co-production of values, conversation with humanists, artists, and universities in Canada's economies of culture: Roundtable with Helga Wild, Niklas Damiris and Sha Xin Wei," Canada Research Chair Hosted Panel, Concordia University, 2 April 2007.

Blackbox Residency, Concordia University, with *Harry Smoak* (Research Coordinator), and over 24 students and affiliate artists and researchers, 29 April - 20 May 2006.

"Technologies of Performance," Research Roundtable, Dr. Chris Salter, Livia Daza-Paris, *Maroussia Lévesque*, Sha Xin Wei, Hexagram-Concordia, Montreal Canada, 19 May 2006.

"Dream and Nightmare," Research Roundtable, Dr. Tore Nielsen (U. de Montréal), *Elena Frantova*, *Lisa Solomonova*, Hexagram-Concordia, Montreal Canada, 12 May 2006.

"Wearable And Gestural Sound," Research Roundtable, Sha Xin Wei, *David Gauthier*, *Jason Levine*, Hexagram-Concordia, Montreal Canada, 10 May 2006.

"Calligraphic Video," Research Roundtable, Sha Xin Wei, *Frieda Abtan*, *Yannick Assogba*, *Michael Fortin*, Hexagram-Concordia, Montreal Canada, 8 May 2006.

"Soft Architecture," Research Roundtable, *Karmen Franinovic*, *Harry Smoak*, *Erik Conrad*, Hexagram-Concordia, Montreal Canada, 3 May 2006.

"Die Audio Gruppe," Bernard Maubrey, Canada Research Chair Hosted Visiting Artist Lecture, 15 November 2005.

"Thresholds of Performance III," Chaired Panel, SLSA, Chicago USA, November 11, 2005.

"Valorization through art and technology : an opportunity to add value and rethink economic valuation ?" Dr. Niklas Damiris, lecture hosted by Canada Research Chair and Les Lundis Hexagram, Society for Arts and Technology (SAT) Montreal, 10 October 2005.

"Threshold of Performance I and II," Chaired Panels, Performance Studies International, Brown, Providence USA, March 31 - April 3, 2005.

"Mathematics, Writing and Poiesis," Chaired Panel, Society for Literature and Science, Pasadena USA, 2002.

Special Faculty Respondent, Intimate Technologies, Banff New Media Institute, Banff Canada, 2002.

"Mathematics, Writing and Poiesis," Chaired Panel, Society for Social Studies of Science, 2001.

**Organized Workshops
Chaired Panels**

"Personal Narrative Spaces," Chaired Panel, ACM Multimedia, 1995.

**Peer-reviewed Conference /
Symposia Presentations*****Peer-reviewed Conference/Symposia Presentations***

"An Atelier-Laborator As a Transversal Machine," Panel: Prototype, organized by Lina Dib, Sophie Roosth, American Anthropological Association, Montreal, November 16, 2011.

"Recherche-Création," Panel: Stengers' Cosmopolitics III -- Cosmopolitics as Compositional Practice, respondent: Isabelle Stengers, organized by Stephen Meyer, Society for Literature, Science, and the Arts (SLSA), Kitchener, September 16, 2011.

"Substrate," Textures Conference SLSA-Europe, Riga, 15-20 June 2010.

"Gesture in Responsive Media," Third International Conference on Music and Gesture, March 5 – 6, 2010, Centre for Interdisciplinary Research in Music Media and Technology, McGill University, Montreal, Canada. Co-organized with Marcelo Wanderley, Jon Wild.

"The Principle of Least Action (Leibniz, Whitehead, Alexander)," Society for Literature, Science, and the Arts (SLSA), Atlanta, November 5-8, 2009.

"Morphogenesis: Whitehead's concrescence, Alexander's unfolding, and Serres' noise," Society for Literature, Science, and the Arts (SLSA), Atlanta, November 5-8, 2009.

"Transversal Machines? The Art and Technologies of Performance," Society Social Studies Science (4S), Washington, D.C., October 28-31, 2009.

"An Experiment in Autonomous Cultural Production," Society Social Studies Science (4S), Washington, D.C., October 28-31, 2009.

"From Technologies of Representation to Technologies of Performance," Second International Conference on Critical Digital: Who Cares?, Harvard University Graduate School of Design, April 17-19, 2009.

"Petitot, Whitehead, the Problem of Novelty, and Computer Vision," Recoded: Landscapes and Politics of New Media, Kings College, Aberdeen UK, April 25-26, 2008.

"What's at Stake?" First International Conference on Critical Digital: What Matters(s)?, Harvard University Graduate School of Design, April 18-19, 2008.

"Laboratory Practice as Art Practice as Laboratory Practice? A Call for Case Studies on Creation/Research," Society for Social Studies of Science (4A), Montreal, October 11-12, 2007.

"What's at Stake? Poetics of Performative Space," AI & Society Socio-ethics and Interactive Technologies: From Judgement to Calculation," Middlesex University UK, October 5-6, 2007.

"Whitehead and Poetical Mathematics," Deleuze, Whitehead and the Transformations of Metaphysics Conference, Institute of Philosophy, K.U. Leuven, and the Royal Flemish Academy, Brussels, Belgium, 25 May 2005.

"Why? And So What? Poetics of Performative Space," Space and Perception Symposium, RIXC, Riga, Latvia, 21 May 2005.

"Performing Publicly in Responsive Space: Agora, Piazza, Festival and Street," European Association for the Social Studies of Technology, Vienna, 2000.

**Peer-reviewed Conference /
Symposia Presentations**

- "Enchantment and Topological Media," Deleuze Conference, University of California, Berkeley USA, 2-4 November 2006.
- "Whitehead's Poetical Mathematics," Distributed Whitehead Symposium, Duke University - Stanford University and University of Buffalo, 24 April 2006, <http://www.jhfc.duke.edu/jenkins/whitehead> .
- "Performing Ethico-aesthetics," Colloque international Gins et Arakawa Architecture and Philosophy, CREA, Universite de Paris 10, 1 October 2005.
- "Artful Gestures in Everyday Life," Surgery Performance Studies International, Brown, Providence, RI, April 1, 2005.
- "An Evening with Sponge," DEAF04, Rotterdam, November 11, 2004.
- "Scholarly Workspaces," UC Santa Barbara, USA, 1996.

Lectures / Visiting Artist**Invited Lectures / Visiting Artist**

- "Ryoji Ikeda," DHC Gallery & PHI Centre, Montreal, 17 October 2012.
- "Recherche-Création: Play in Common Space," Logan Center for the Arts, University of Chicago, 12 October 2012.
- "Topology, Phenomenology and Spatial Audio," UC Berkeley Center for New Music and Audio Technologies (CNMAT), 13 Sep 2012.
- "Play and Morphogenesis," Keynote lecture at SLSA Europe and Supersonix Symposium, London, June 20, 2012.
- "Topological Media," Syncretic Transcodings, Hexagram UQaM, 5 May 2012.
- Respondent to Celia Lury, "Inventive Methods: Moving Knowledge," Technoscience Salon, University of Toronto and York University, 9 March 2012.
- "Vaster than empires and more slow: Gesture and Movement in Vegetal Time," Technoscience Salon, University of Toronto and York University, December 2, 2011.
- "Alternate|Augmented Reality? Constraint-based live events in common space," Greater Than Games, John Hope Franklin Center for Interdisciplinary and International Studies, Duke University, 31 October 2011.
- "Calligraphic, Gestural Dense Media," High Performance Computing, Montreal 17 June 2011.
- "Topology, Morphogenesis and Cultural Dynamics", Paris 8, 2 June 2011.
- "Textural and Gestural Media", Digital Hub, University of Aberdeen, 1 June 2011.
- "Morphogenesis," Literature and Mathematics Symposium, Centre for Modern Thought, Aberdeen, 12 June 2010.
- "Topological Media," Digital Media in Society Panel, Canada Research Chairs, with SSHRC President Chad Hartfield, Congress of the Humanities and Social Sciences, Concordia University, 2 June 2010.
- "Topological Media," Tele-Immersion Lab, UC Berkeley, 5 May 2010.
- "Effects: Poiesis and Enchantment," Department of Rhetoric, UC Berkeley, 4 May 2010.

Lectures / Visiting Artist

- "Gesture in Responsive Media," Human-Computer Interaction, Computer Science Department, Stanford University, 10 March 2010.
- "Topological Media," New Media Institute, UC Berkeley, 25 February 2010.
- "Transversal Research," Science and Technology Studies Program, UC Davis, 22 February 2010.
- "Enchantment and Public Space", SIAT, Simon Fraser University, 9 January 2008.
- "Topology of Being," Heidegger and Space, Stanford University, 2 June 2007.
- "Art Research: Sponge & the Topological Media Lab," 9 Evenings Reconsidered: Art, Theater and Engineering 1966, Leonard & Bina Ellen Art Gallery, Concordia University, 23 March 2007.
- "A Poetics of Responsive Space/ Technologies of Performance," SMARTlab Seminar, University of East London, UK, 12 July 2006.
- "Poetics of Performative Space," Who's In Control? Symposium, Harvestworks/Eyeball/Three-Legged Dog, New York, 25 February 2006.
- "Art Research in Performative Spaces," Hexagram Mondays, SAT, Montreal, 13 February 2006.
- "Numberless Shape," Society for Literature and Science, Pasadena, October 2002."An Experiment in the Phenomenology of Performance," Literature/Science/Images Workshop, History of Science, Harvard University, March 2, 2005.
- "The Topology of Gesture," Corpo-Topologies: Space and Materiality Panel, Society for Literature and Science, Paris, 2004.
- "Topological Media Lab: Art Research on Gestural and Calligraphic Media," Inside/Outside: Responsive Environments and Ubiquitous Presence, Banff New Media Institute, August 2004.
- "Gesture and Agency in the Field of Responsive Media," C a l - (I T) 2 Irvine Media Arts Hybrid Speaker Series, May 2004.
- "Shaping Art Practice as a Mode of Research: TGarden and Responsive Media," Stanford Mellon Workshop: Critical Studies in New Media, May 2004.
- "Topological and Responsive Media," Digital Media Visiting Artist Lecture Series, Rhode Island School of Design, Providence RI, March 2004.
- "Le Geste entre Science et Art," Conférence du TeslabTEC, Université du Québec à Montréal Canada, January 2004.
- "Diagrammatological Surgery on Whitehead's Time in Concept of Nature," Society for Literature and Science, Austin, October 2003.
- "Paleontology of Knowledge," Society for the Social Studies of Science, Atlanta October 2003.
- "Does Felt Dream of Electric Sheep?" Carbon versus Silicon: Thinking Small/Thinking Fast Nanotechnology Conference, Banff Canada, August 2003.
- "Wearables for Responsive Environments," Future Physical Respond Symposium, Cambridge UK, April 2003.

Lectures / Visiting Artist

- "Topological Media," Jan Van Eyck Institute, Maastricht, April 2003.
- "Dynamics on Simplicial Complexes for Media Choreography," Sony Computer Science Laboratory, Paris France, March 2003.
- "Mote- and Fabric-based Wearable Instruments," STEIM, Amsterdam March 2003.
- "Topological Media and Softwear for Responsive Spaces," U. Quebec at Montreal Canada, March 2003.
- "Resistance Is Fertile," Program in the Study of Imagination, Northwestern University, Chicago USA, February 2003.
- "Wearable Sound," Future Physical WearMe Symposium, UK, December 2002.
- "Performance Technologies," EDA Lecture, Design | Media Arts, UCLA, October 2002.
- "Hubbub Salon," with Anne-Maria Korpi and *James Hsu*, Transcinemam, 3feetofftheground, San Francisco USA, July 2001.
- "Differential Geometrical Writing as Poietic Technology," Society for Social Studies of Science, Boston, 2001.
- "Geometric Writing As Performance," Society for Literature and Science, 2000.
- "Geometric Measure Theory As Monster Mash," Society for Literature and Science, and Society for Social Studies of Science, 1999.
- "Writing and Performance," Media Arts Research Studies, GMD St. Augustin Germany, 1999.
- "Building A Better Blackboard," University of California Berkeley Graphical User Interface Research seminar, Berkeley USA, 1999.
- "Geometer's Workbench," Stanford Computer Science Department Information Mural Group, Stanford USA, 1998.
- "Technologies of Writing," University of Trondheim, Norway, 1997.
- "Mathematical Inquiry," San Francisco Exploratorium, Institute for Inquiry, San Francisco USA, 1996.
- "Networked Collaborative Learning Environments," Stanford Project-Based Learning Symposium, USA 1995.
- "MediaWeaver, A Framework for Composing Distributed Media," Digital Libraries seminar, Stanford Computer Science Department, USA, 1995.
- "SiliconBase." Workshop on Digital Libraries in Science and Technology Studies, New Orleans USA, 1994.
- "Interactive Media Spaces," San Francisco Museum of Modern Art, USA, 1994.
- "Collaborative Multimedia." Beyond the Obvious, ACM Multimedia Panel, USA, 1994.
- "Distributed Multimedia." People Computers and Design seminar, Stanford Computer Science Department, USA, 1994.

Funding**Funding**

Mellon Fellowship for Arts Practice and Scholarship at the Gray Center for Arts and Inquiry, with Prof. Patrick Jagoda, English and Cinema & Media Studies, University of Chicago, 2012-2013.

Le Fonds québécois de la recherche sur la société et la culture, Projets Novateurs Le rêve d'Einstein 1: installations qui modifient la temporalité, 2012-2013.

Sustainability Action Fund, Concordia University, 2011-2012.

Strategic Research Partnerships, Office of the Vice President, Research and Graduate Studies, and Faculty of Fine Arts, Concordia University, 2011-2012.

Book Completion Grant, ARRE, Office of the Vice President, Research and Graduate Studies, and Faculty of Fine Arts, Concordia University, 2011-2012.

National Centre of Excellence, GRAND: Graphics, Animation and New Media, Collaborating Network Investigator 2010-2011.

Canada Research Chair New Media, 2010-2015.

Le Fonds québécois de la recherche sur la société et la culture, Architectures of Enchantment, Temporal Textures in the Built Environment, 2010-2012.

National Centre of Excellence, GRAND: Graphics, Animation and New Media, Play and Performance, 2010.

National Centre of Excellence, GRAND: Graphics, Animation and New Media, Virtual Presence, 2010.

Concordia VPRGS and Faculty of Fine Arts Facilities Upgrade Grant, Core Computer System for CRC Topological Media Lab, 2010-2011.

Faculty of Fine Arts Travel Grant, Textures SLSA-Europe Riga, 2010

Faculty of Fine Arts Travel Grant, Calligraphic Video, ACM Multimedia Shanghai 2009.

Experimental Phenomenology, with David Morris (Department of Philosophy), Concordia VPRGS Seed Grant, Faculty of Fine Arts, and Faculty of Arts and Sciences, 2009.

Frankenstein's Ghosts, SSHRC Research Creation grant, co-PI, 2007-2009.

Pneuma Installation at Champ Libre Montreal and eArts Shanghai, Concordia VPRGS Aid to Research Related Events, Publications, Exhibition and Dissemination grant, 2008.

Concordia Faculty of Fine Arts, Research Fund, Topological Media Lab, 2008.

Hexagram, Ozone Media Choreography, 2008.

CIAM Fonds Quebecois De La Recherche Sur La Société et la Culture, Travel Support for AI & Society, and Experimental Practices in Art, Science, and Philosophy, 2007.

Faculty of Engineering Computer Science, SRT Masters Research Stipend, M. Fortin, E. Frantova, 2007.

Faculty of Fine Arts, CO2 / Ouija movement experiment initiation grant, 2007.

Hexagram Financial Assistance Fund, Dance Moves initiation grant, 2007.

Hexagram Financial Assistance Fund, OXYGEN Media Choreography initiation grant,

Funding

2007.

Le Fonds québécois de la recherche sur la nature et les technologies, Unités agencables: Réseau d'Environnements Immersifs pour Collaboration à Distance, team grant with Jeremy Cooperstock, McGill University, 2006-2009.

CIAM Fonds Quebecois De La Recherche Sur La Societe et la Culture, Soft Architecture Workshop, 2006.

Fonds québécois de recherche sur la société et la culture, Programme d'appui à la recherche-crédation, IL Y A: Membranes Video Calligraphiques, 2006-2009.

Hexagram, WYSIWYG Wearable and Gestural Sound, 2005, with M. Wanderley, McGill.

CIAM Fonds Quebecois De La Recherche Sur La Societe et la Culture, Summer Workshop in Topological Media, 2005.

Canada Foundation for Innovation Infrastructure Grant, 2005-2008.

Hexagram, Excitable Sites, research affiliate with J. Berzowska, B. Layne, C. Salter.

Daniel Langlois Foundation for Art, Science and Technology, Independent Artist, Softwear Instruments, 2003.

Rockefeller Foundation, Boundary Crossings: New Modes of Cultural Production, 2003, sponge / Code Zebra.

LEF Foundation, Sauna, 2002, sponge.

Creative Work Fund, Sauna, 2002, sponge.

Daniel Langlois Foundation for Art, Science and Technology, sponge TGarden, 2001.

GVU Seed Grant, Wearables for Performance, 2001.

Teaching Activities***Teaching Activities******Courses Taught***

2005-present. Associate Professor, Fine Arts and Computer Science, Concordia University:

Winter 2013, CART 414 Matter and Media

Fall 2012, INDI 633 Seminar: Phenomenology, Temporality, Architecture

Fall 2012, INDI 639 Seminar: Practicum Responsive Environments

Fall 2012, TML Seminar: Maths for Media Arts and Philosophy

Fall 2012, CART 411 Project Studio: Another World Is Possible?

Summer 2012, TML Seminar: Maths for Media Arts and Philosophy

Winter 2012, CART 412 Project Studio: Alchemy, Time and Temporality

Winter 2012, TML Seminar: Temporal Textures, Movement + Media

Fall 2011 - Spring 2012 INDI 698, Master's Directed Research Course: Practicum

Fall 2011 INDI 693, Critical Studies of Media Arts and Sciences

Teaching

Fall 2011 - Spring 2012 TML Seminar: Alchemy and Capitalist Sorcery

Fall 2011 - Spring 2012 TML Seminar: Maths for Media Arts and Philosophy

Fall 2011, CART 370: Realtime Video, with *Freida Abtan*

Fall 2011, TML Maths Seminar: Introduction to Group Theory

Fall 2010 - Winter 2011 TML Experiment+Seminar: Memory and Place, Identity, with David Morris

Winter 2011, TML Seminar: Introduction to Differential Equations, Differential Geometry, Measure Theory

Fall 2010, TML Seminar: Spinoza's Ethics and non-anthropocentric ecology

Fall 2010, TML Maths Seminar: Introduction to Linear Algebra, Topology, Differential Equations

Fall 2010, CART 414 / SIP 825, Matter and Media

Winter 2009, HUMA 888, Subjectification, Process, and Performance, Critical Studies of Media Arts and Sciences, Doctoral Seminar in Interdisciplinary Studies

Winter 2009, CART 454, Enchantment, Matter, and Media

Fall 2008, CART 600, Architecture of Responsive Spaces

Winter 2008, CART 454, Enchantment, Matter, and Media

Fall 2007, HUM 888, Subjectification, Process, and Performance

Fall 2007, COMP 498A / CART 498D, Realtime Computational Video

Fall 2006, Winter 2007, SIP 827, Critical Studies in Media Arts and Sciences

Winter 2007, CART 454, Enchantment, Matter, and Media

Fall 2006, COMP 471, Computer Graphics: Real-time Video

COMP 490, Computer Science Project

DART 471, Professional Interenship

Winter 2006, CART 498D, Topics in Multiemdia Theory

Winter 2006, ASEM 652 MFA Seminar Alchemy and Topological Media

COMP 490, Computer Science Project

Fall 2005, COMP 691X, Alchemy and Real-time Media: Calligraphic Video, Ph.D. Seminar

Fall 2005, CART 498C Real-time Video

Summer 2005, CIAM Seminar and TML Workshop (40 sessions, 8 weeks)

Winter 2005, DFAR 454: Topics in Multimedia Theory

2001 -2004. Assistant Professor, School of Literature, Communication and Culture, Information Design Technology, Georgia Institute of Technology:

Summer 2004, TML Summer Seminar Workshop: Topological Media Lab

Teaching

Fall 2003, LCC 8803 A Tangible and Responsive Media
 Fall 2003, LCC 8910 Independent Study
 Fall 2003, LCC 2100 B Introduction to STAC: Knowledge How and Knowledge That
 Fall 2003, LCC 6650 H Project Studio
 Summer 2003, TML Summer Seminar Workshop: Topological Media Lab
 Spring 2003, LCC 6321 A Architecture of Responsive Spaces
 Spring 2003, LCC 3314 L Technologies of Representation: Speech, Writing and Language
 Spring 2002, LCC 3833 F Special Topics in Issues of STAC: Living Pattern
 Spring 2002, LCC 6650 H Project Studio
 Fall 2002, LCC 6310 A Computer As an Expressive Medium
 Fall 2001, LCC 3314 D Technologies of Representation: Speech and Writing
 Fall 2001, LCC 6321 A Architecture of Responsive Spaces
 Fall 2001, LCC 6650 H Project Studio
 Spring 2001, LCC 6113 A Multimedia Design: Technologies of Performance
 Spring 2001, LCC 3833 J Special Topics in STAC: Virtuality and Habitation
 Spring 2001, LCC 6650 H Project Studio
 1997-1999. Visiting Scholar and instructor, Stanford University: History of Science Sophomore Seminars on Virtuality, with Tim Lenoir
 1994-1997. Coordinator, Stanford University: Interaction and Media Group (IMG), Humanities Center faculty/student workshop.
 1991, 1992. Teaching Assistant, Stanford University: "Adaptive Pattern Recognition and Neural Networks."

Students Supervised***Students Supervised******Independent Study, Undergraduate***

Evan Montpellier, Analog video, Concordia IMCA, 2012.
 David Silveira, Kinetic sculpture and shadow, Concordia CART, 2012.
 Julia Wolfe, Internet, journalism, and public space, Concordia CART, 2012.
 Jason Levine, Speech feature extraction and extended voice, Concordia CS, 2006.
 Graham Coleman, Speech-driven animation, Georgia Tech, 2002.
 Stephen Ingram, Speech + dynamic typography, Georgia Tech, 2001-2002.
 Vinny Fiano, Speech-driven animation, Georgia Tech, 2001-2002.

Students Supervised***Independent Study, Masters Level***

Tyr Umbach, Mathematics seminar, 2010 - present.

Sean Braithwaite, Mathematics seminar, 2010 - present.

Jesse White, Augmented reality, Mathematics seminar, 2011- present.

Independent Study, Doctoral

Magdalena Olszanowski, Alchemy seminar, Communications, Concordia 2011-2012.

Sarah Choukah, Alchemy seminar, U. de Montreal, 2011-2012.

Delphine Nain, Vision methods in medical imaging, Ph.D., College of Computing, Georgia Institute of Technology, 2002 - 2006.

Giovanni Iachello, Security, policy, and ubiquitous computing, Ph.D. College of Computing, Georgia Institute of Technology, 2002 - 2004.

David Nguyen, Ph.D. College of Computing, Georgia Institute of Technology, 2002-2003.

James Wang, Semantics-Sensitive Integrated Matching for Picture Libraries, Ph.D. Computer Science, Stanford University, 1994-1997.

Visiting Scholars and Artists

Elysha Poirier, Video, painting, graphic design, WunderKammer, Ontario Quebec Artist, 2012.

Thomas Jellis, Ecologies of practices, Ph.D., Geography, Oxford University, 2009.

Lina Dib, Technologies of memory; installation arts, Ph.D., Anthropology, Rice University, 2008-2011.

End of Term Group Evaluation

Graduate Certificate Program, Computation Arts, 2005, 2006

Ayesha Hameed, Outer Space, York University and Concordia University, CART Graduate Certificate Program, 2006.

Masters Thesis Advising, Principal Supervisor

Nikolaos Chandolias, SIP, Speech Processing and Performance, 2012 - present.

JoDee Allen, SIP, HipHop, Street Dance, and Responsive Media, 2011 - present.

Michael Fortin, SIP Computer Science, Computational Fluid Dynamics, Parallel Machine Architectures and Realtime Video, 2008 - 2010.

Elena Frantova, SIP Computer Science, Sensing presence (with Dream and Nightmare Laboratory, Hopital Sacre-Coeur, U. de Montreal), 2006 - present.

Kevin Quennesson, Conscious=Camera, Responsive Installations: Towards A Narrative Of

Students Supervised

The Self?, Georgia Tech IDT, 2006.
 Maria Cordell, The Tapestry Project: Exploring the Visual Rhetoric of News, Georgia Tech IDT, 2005.
 Jill Fantauzza, Responsive Garments, Georgia Tech IDT, 2004.
 Jehan Samir Moghazy, HCI evaluation of play spaces, Georgia Tech IDT, 2001-2002.
 Yoichiro Serita, wearables, physical computing, realtime media, Georgia Tech HCI, 2002-2004
 Erik Conrad, Aether interactive installation, Georgia Tech IDT, 2001-2002.
 Junko Tsumuji, StirVision motion capture re-projection, Georgia Tech IDT, 2001-2002.
 Alex Cook, Tryptich interactive script, Georgia Tech IDT, 2001-2002.
 James Hsu, Tryptich video installation, Georgia Tech IDT, 2001-2002.
 Joel McGinnis, morphing music, Georgia Tech IDT, 2001.

Masters Thesis Advising, Co-Supervisor

Steven Dow, Georgia Tech HCI ubiquitous computing, 2001-2003.
 Chaim Gingold, "Miniature Gardens & Magic Crayons: Games, Spaces, & Worlds," co-supervised with Michael Mateas, Janet Murray, Will Wright, IDT 2003.
 Kulavee Tejavaniya, TCostume experimental garment design, Georgia Tech IDT, 2002.
 Yvonne Caravia, active materials and body-based design, Georgia Tech IDT, 2001-2002.

MFA

Zohar Kfir, Open Media, 2009 - 2012.
 Laura Emelianoff, Fiber arts, 2008 - 2012.
 Flower Lunn, Studio and fiber arts, 2007 - 2011.

MFA Co-Supervisor

Chloe Bertrand, "Moirae", Fine Arts, Concordia University, 2007, co-advised.
 Alexander Wilson, Social Reproduction Machine, Open Media, Fine Arts, Concordia University, 2006, co-advised.
 Geneviève Chevalier, "Par vents et marées, par monts et rivières, par villes et villages." 2005, co-advised.
 Nadine Asswad, Movement, Affect, and Cinema, Concordia University Film Department, 2005-2006, co-advised.
 Troy Rhoades, Nomadic Cinema, Concordia University Film Department, 2005-2006, co-advised.

Students Supervised***Doctoral Thesis Advising -- Principal Supervisor***

- Adrian Freed, Special Individualized Program: Fine Arts. 2010 - Present.
- Patrick Harrop, Architecture and computational media, Humanities Special Program, Concordia University, 2007 - present.
- So-Young Park, Art and philosophy, Humanities Special Program, Concordia University, 2006 - present.
- Erik Conrad, Haptic, transmuted, and peripheral awareness, Special Individualized Program: Fine Arts and Computer Science, Concordia University, 2005 - present.
- Harry Smoak, Special Individualized Program: Fine Arts and Computer Science, Concordia University, 2008 - Present (Deferred 2005 in favor of staff research position).
- Valerie Lamontagne, Relational performance, Special Individualized Program: Fine Arts and Computer Science, Concordia University, 2005 - 2010.
- Karmen Franinovic, Responsive architecture and public space, Communications, Concordia University, 2005 - 2008.

Doctoral Thesis Advising -- Co-Supervisor

- Tzu En Ngiao, Composition and responsive media, SIP. 2012 -
- Adam Sertima, Play and game, SIP PhD, Concordia, 2012-.
- Mayra Morales, Dance and performance, Humanities PhD, Concordia, 2012-.
- Jennifer Spiegel, Theatricality and ecology, PhD, Goldsmiths College, London, 2008-2011.
- Miao Song, Computer graphics and cinema, Special Individualized Program PhD. 2009 - 2011.
- Troy Rhoades, Special Individualized Program: Fine Arts and Computer Science, Concordia University, 2006 - present.
- Yon Visell, Behavioral systems and sensing intentionality, Center for Intelligent Machines, Computer Science, McGill University, 2005 - present.
- Magda Wesolkowska, Faculty of the Built Environment and Planning, Université de Montréal, 2004 - 2006.

Doctoral Thesis Advising -- Member of Supervisory Committee

- Jennifer Willet, (RE)embodying Biotechnology: towards the democratization of biotech through embodied practices, Humanities Ph.D. Concordia University, 2006.

Thesis / Project Reading -- Doctoral

- Charles Gagnon, Touch and knowledge in sculpture, Special Individualized Program PhD, 2006 - 2008.

Students Supervised**External PhD Examiner**

Vangelis Lympouridis, Design Strategies for Whole Body Interactive Performance Systems, College of Humanities and Social Science. Edinburgh College of Art, The University of Edinburgh, 2012.

Anne Nigten, SMARTlab, University of the Arts London, 2006.

Aleksandra Dulic, Fields of Interaction: From Shadow Play Theatre to Media Performance, Simon Fraser University, 2006.

Post-doc Supervisor

Jennifer B. Spiegel, Critical studies of performance, theatricality and ecological activism, 2011-2013.

Ma Zhiming, Visting Scientist, from Xinjiang Normal University, sponsored by China Scholarship Council of the PRC, September 2006 - August 2007.

Academic Service**Academic Service****Directorships**

Director, Topological Media Lab, 2001 - present, <http://topologicalmedia.concordia.ca/>

Director, Hexagram Interactive Textiles and Wearable Computing Axis, 2005-2007.

Departmental Service

Department Promotion and Tenure Committee

Lectures Sponsored by CRC

Nikas Damiris, Sustainability

Helga Wild, Deep Ethnography

CART Liaison with CDA

CART Curriculum Committee

Computer Science Department Liaison with Fine Arts

Faculty Service

Canada Research Chair Faculty Search Committee, Faculty of Fine Arts, Concordia University, 2005.

Film Animation Faculty Search Committee, Faculty of Fine Arts, Concordia University, 2009.

Visiting Artist Lectures Sponsored by CRC

Benoit Maubrey, Die Audio Gruppe / Audio Ballerinas

Tirtza Even, installations and experimental documentary

Toni Dove, Spectropia, interactive film, independent artist, New York

Nadine Boykovic, Cambridge University Dept, of French, Film Studies

Mili Tharakan, active textiles, 1 April 2011

Academic Service**University Service**

Concordia University Committee for 11th Technology Summit and Technology Platform 2005 in New Delhi, India, 2005.

Concordia University Committee for National Academy of Chinese Theatre Summer Institute, 2005-2006.

University Research Committee, 2010-

Visiting Scholar Lectures Sponsored by CRC

Brian Rotman, CISSC

Niklas Damiris, CISSC

Concordia University Faculty Tribunal Pool, 2012-

External Committees, Juries, Editorial Boards

Editorial Board, *AI & Society*, Cambridge and London, UK, 2008-Present

Digital Futures Initiative Review, Ontario College of Art and Design University, 2010.

International Society of Electronic Arts Jury, 2010.

John Simon Guggenheim Memorial Foundation Reviewer, 2006, 2009.

Wiener Wissenschafts-, Forschungs- und Technologiefonds (WWTF) - Vienna Science and Technology Fund, 2008.

ACM Multimedia Jury, 2007 - present.

International Journal of Creative Interfaces and Computer Graphics (IJCICG), 2009 - present

FibreCulture: Internet Theory + Criticism + Research, 2008 - present.

Editorial Board, *Experimental Practices* Book Series, Rodopi Press, 2006 - present.

Computer - Human Interaction (CHI) Reviewer, 2006

Ubicomp Reviewer, 2005 - 2006

Associate Editor, *AI and Society*, 2005 - present

Hexagram Comité des directeurs d'axes, 2005 - present.

Smart Graphics Reviewer 2004-2006

Hexagram Research and Creation Committee, 2004-2005.

Rockefeller Foundation Media Arts Program, 2003-2005.

Canada Council / National Sciences and Engineering Research Council New Media Initiative, 2003.

Banff New Media Institute Advisory Board, 2003-2004.

Society for Social Studies of Science, 2002 +

Association of Computing Machinery, 2000 +

Ground Zero, Bay Area Advisory Committee 2000 - 2001.

Academic Service

Society for Literature and Science, 1999 - present

Computer Professionals for Social Responsibility, 1999 +

Pliant Research Group – co-founder, 1997 - present.

sponge media art group – co-founder, 1997 - present.

Wolfram Research Mathematics Research Advisory Board, 1991-1993.

American Mathematics Society, 1980 +

Other Service: Reviewing Work

SSHRC (Canada); NEH, NSF (USA); JISC (United Kingdom), Digging into Data Challenge Conference, Washington DC, 9-11 June 2011

AI & Society, 4 articles, 2008-present

Duke University Press, 1 book

MIT Press, 1 book

Smart Graphics, 6 articles, 2005-2006

Leonardo Journal, 2 articles, 2003

Configurations Journal, 7 articles, 2002-present

“Review of Physics Curriculum Project.” Annenberg Foundation, 1988.

Reviews of Work**Reviews of Work by Peers**

Stephen Wilson, *Art+Science Now*, London: Thames & Hudson, 2010.

Anna Munster, *Materializing New Media: Embodiment in Information Aesthetics*, Dartmouth University Press, 2006.

Lucy Bullivant. *Responsive Environments : Architecture, Art and Design*. Paperback ed: Victoria and Albert Museum, 2006, pp. 74-75.

Isabelle Valverde, *Interfacing Dance and Technology: a Theoretical Framework for Performance in the Digital Domain*, Portuguese Gulbenkian Foundation and the Foundation for Science and Technology Book Series, (Ph.D. Dissertation, UC Riverside 2004).

Lucy A. Suchman. *Human-machine reconfigurations plans and situated actions*. 2nd Edition. Cambridge; New York: Cambridge University Press, 2006, p. 281.

Bernadette Wegenstein. *Getting under the Skin : Body and Media Theory*. Cambridge, MA: MIT Press, 2005.

Bolter, J. David, and Diane Gromala. *Windows and Mirrors : Interaction Design, Digital Art, and the Myth of Transparency*. Cambridge, Mass.: MIT Press, 2003, p. 114-129.

Benjamin Weil, “TGarden,” *Leonardo*, Volume 35, Number 4 , October 2002.

New York Digital Salon, Tenth Anniversary. For TG2001 production of TGarden, with Sponge, as one of the 100 most influential works of new art since the 1960’s, Oct. 2002.

Reviews of Work

ArchiNed Netherlands Review of Architecture and Art, <http://www.archined.nl/news/0110/tgarden.html> , 2001.

Patrick Lichty," Building a Culture of Ubiquity," VOYD, <http://www.voyd.com/ubiq/space.htm> . 2001.

Personal Information

Personal Information: Born in Washington, D.C. Lives in Montréal, Canada.

Working Languages: English, native; Chinese, native speaking; Italian, speaking and reading; French, reading; American Sign Language