

Education

- Doctor of Musical Arts** 1984
University of Illinois at Urbana-Champaign
Thesis: *Factors contributing to the characteristic timbre of harp tones*
Composition: *Lysogeny, for harp and computer-generated electronics*
Committee: John Melby, James Beauchamp, Scott Wyatt, Constantine Trahiotis, Larry Gushee
Major: Music composition, Minor: Psychoacoustics
- Master of Computer Science** 1988
University of Illinois at Urbana-Champaign
Thesis: *Kyma: an interactive graphic environment for object-oriented music composition and real-time software sound synthesis written in Smalltalk-80*
Advisor: Ralph E. Johnson
- Master of Music** 1979
Texas Tech University
Thesis: *Waves: Concerto for Harp and Percussion Ensemble*
Advisor: Mary Jeanne van Appledorn
- Bachelor of Music, *Magna cum laude*** 1977
University of New Mexico

Experience

- President / Co-founder—Symbolic Sound Corporation** 1989–Present
Software design and development, marketing, sound design, documentation, user support for the Kyma sound design environment
- Research Associate—CERL Sound Group University of Illinois** 1984–1994
Data sonification research with National Center for Supercomputing Applications (NCSA); sound consultant for NCSA Virtual Reality Lab, organizer and lead instructor for annual Intensive Workshop in Sound Computation, music-related software development and design for Macintosh and PLATO platforms, composition and sound design for software and hardware developed by the CERL Sound Group
- Adjunct Assistant Professor—University of Illinois School of Music** 1992–1994
Advising graduate composition students, co-investigator on computer improvisation research with Salvatore Martirano, Bill Walker, Kurt Hebel, Organizer of weekly Seminars in Sound Computation
- Visiting Assistant Professor—University of Illinois School of Music** 1983–1984
Teaching computer music, 20th century music, 18th century counterpoint; Organizer of a weekly campus-wide seminar on computer music and Composers' Forum on student research in computer music; performing and touring as harpist with Contemporary Chamber Players
- Teaching Assistant—University of Illinois School of Music** 1982–1983
Teaching freshman and sophomore music theory and ear training courses
- Graduate Assistant—Experimental Music Studio University of Illinois** 1982–1983
Assisted in construction and wiring of a new Synclavier-based studio; assisted in daily maintenance and upgrades of four electronic music studios
- Research Assistant—Psychology Department University of Illinois** 1981

<i>Research and development of sounds for hypnotherapy to reduce anticipatory nausea in cancer patients undergoing chemotherapy</i>	
Teaching Assistant—Texas Tech University <i>Teaching undergraduate harp students</i>	1978-1979
Principal Harpist—Lubbock Symphony Orchestra <i>Concerts and pop-concerts</i>	1978-1979
Principal Harpist—New Mexico Symphony Orchestra <i>Concert season plus state-wide touring, including the Albuquerque premiere of Dave Brubeck's La Posada and tour of northern New Mexico</i>	1978-1979

Honors and Awards

Listeners' Choice Award: <i>SlipStick</i> for Kyma & Continuum fingerboard <i>Winners were selected by audience ballot during the SEAMUS conference on Human Interface Devices in Ft Wayne & featured on a SEAMUS CD</i>	2009
Distinguished Alumnae Award — Texas Tech University <i>For invaluable contributions in the field of music</i>	2003
Editors' Choice Award — Electronic Musician Magazine <i>For Kyma as best sound design workstation of the year</i>	1998, 2001, 2005
Commission Award — International Computer Music Association <i>For the networked sound art installation "Public Organ"</i>	1995
Multimedia Award & 10 th Anniversary Award — Nicograph <i>For the video "Using Sound to Extract Meaning from Complex Data"</i>	1991
Fellowship — Apple Computer InterUniversity Consortium on Educational Computing <i>For a proposal to get Smalltalk on a Mac to communicate with the CERL Sound Group Platypus signal processor. Fellowship award was one year's use of a Macintosh II and trip to Cupertino to present results at Apple</i>	1988
University of Illinois Academic Fellowship <i>Full tuition waiver based on academic performance</i>	1980
Percussive Arts Society Composition Contest Prize <i>Full tuition waiver based on academic performance</i>	1980
University of Illinois Academic Fellowship <i>For Waves: Concerto for Harp and Percussion Ensemble</i>	1979

Invited Keynote Addresses

ICAD2017 Keynote Address 23 rd International Conference of Auditory Display (ICAD) http://icad.org/icad2017/program-2/keynote.html/	2017
Looking forward, looking back 41 st International Computer Music Conference (ICMC) https://icmc2015.unt.edu/	2015

Interviews, news, references

The Sense of Beauty <i>Interview in Valerio Jalongo's documentary film on CERN and the language of art and science</i>	In post-production
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- <http://www.amka.ch/EN/THE-SENSE-OF-BEAUTY-working-title-63e89d00>
The Coding of Community: Carla Scaletti, Kyma, and Community Formation in Computer Music 2016
by Madison Heying, University of California Santa Cruz
American Musicological Society/ Society for Music Theory Conference
<http://www.ams-net.org/vancouver/abstracts.pdf>
- Art + Music + Technology Podcast 132** 2016
Darwin Grosse's interview with Carla Scaletti
<http://artmusictech.libsyn.com/podcast-132-carla-scaletti>
- Wonderland Podcast 132 with Steven Johnson** 2016
Episode 3: Strange Loops and Circuit Benders
<http://bit.ly/2hh3Ghn>
- Audio Innovations** 2011
Interviewed by Ron DiCesare in his column for Post Magazine where he talked to the "innovators and risk-takers who are reshaping the audio industry."
- Grove's Dictionary of Music and Musicians** 2010
Article by Elizabeth Hinkle Turner
<http://www.oxfordmusiconline.com/public/>
- Pink Noises: Women on Electronic Music and Sound** 2010
Interview chapter by Tara Rodgers pp 43-53
Duke University Press
- Carla Scaletti interviewed by Giorgos Frangiskos** 2008
As part of the Electro-Medea festival in Athens
<http://usoproject.blogspot.com/2008/06/carla-scaletti-interviewed-by-giorgos.html>
- Crossing the Line: Women Composers and Music Technology in the United States** 2006
by Elizabeth Hinkle-Turner
Ashgate Publishing
- Linguaggi di programmazione** 2006
Interview sidebar by Matteo Milani
Strumenti Musicali magazine January 2006 issue
- Digitale Soundeffekte** 1999
Interview by Maximilian Schönherr on WDR 5 FM in Germany
- Listen Closely: Thanks to Special Effects, Movies Have Been Given A Whole New Look. Get Ready for a Whole New Sound.** 1998
by Eben Shapiro, Wall Street Journal, March 19, 1998
Special report on Kyma, morphing, and special sound effects for films
- Electric Sound: the past and promise of electronic music** 1997
by Joel Chadabe Prentice Hall pp 265-267, 337
Includes stories surrounding Kyma, Symbolic Sound and Public Organ
- American Women in Electronic Music, 1984-94** 1997
by Gavin Borchert Contemporary Music Review Vol. 16, pp. 89-97
OPA. Amsterdam
<http://www.tandfonline.com/doi/pdf/10.1080/07494469700640101>
- Sound FX: When Hollywood Needed to Create the Perfect-Sounding Movie Villain, It Turned to Kurt and Carla** 1995
Interview with Paul Wood in The News Gazette, August 3 1995, pg C1
- Audible Traces: Gender, Identity, and Music** 1995
Edited by Elaine Barkin, Lydia Hamessley pp 7-8

Platypus, Granules, Kyma, Daton, & the DSP56001 in Your Future 1987
by Bob Moog, Keyboard Magazine
Report on highlights of the 1987 International Computer Music Conference

Publications — Websites

carlascaletti.com 2006-Present

LHCsound: Sonification of the ATLAS detector data 2013
With physicist Lily Asquith
Documentation and sounds from our collaboration

symbolicsound.com 1996-Present
With Kurt J. Hebel

Publications — Software

Kyma 7.1—Sound design environment 2016
Automatic signal flow generation based on Sounds and files; new synthesis and processing algorithms based on dynamical systems, and more
<http://kyma.symbolicsound.com/latest-press-releases/kyma-7-1-more-inspiration-more-live-interaction-new-ways-to-generate-sound/>

Kyma 7—Sound design environment 2015
Designed to support composers and sound designers by providing inspiration and help when needed. New Multigrid for exploring combinations of sources and effects with no interruption in the audio signal; new Wave Editor Gallery automatically generates library of signal flow patches based on the edited sample; new Parameter Assistant, Capytalk Reference, Inspiration tool, and web-based Questions and Answers make it easy to get up to speed quickly and get questions answered. Kyma Community Sound Library accessible from the Help menu in Kyma 7.
<http://kyma.symbolicsound.com/whats-new-in-kyma-7/>

Kyma X—Sound design environment 2004–2015
Including new icons, a new Tools editor, a drag-and-drop Expressions Library plus autocompletion, making it easy to create complex controls for any sound parameter, enhancements to the spectral analysis and synchronization tools, Sound caching and partial-compilation to speed development in the Timeline and substantial changes in the underlying structure to make it possible for Kyma to run under Mac OS X and Windows XP
<http://www.symbolicsound.com/Company/KymaXReleased/>

Kyma.5—Sound design environment 2000
Introducing a new Sound Library containing over one thousand new sounds and effects; new Sound Browser where you can audition and combine Sounds; the Virtual Control Surface, Preset lists, Rolling the dice, the Timeline, Multichannel spatialization and panning, support for the Motor Mix, and more.
<http://www.symbolicsound.com/press-Kyma5Shipping.html/>

Kyma 4—Sound design environment 1996

Introducing spectral analysis tools and resynthesis with spectral morphing or warping using additive synthesis; graphic spectrum editor; RE (resonator/exciter) cross synthesis; a vocoder; tuning tables for microtonal scales and other alternate tunings; a MIDI scripting language to generate MIDI sequences algorithmically (in addition to the standard features of being able to use MIDI files and live MIDI from sequencers or MIDI controllers).

<http://www.symbolicsound.com/press-releases.html>

Kyma and Kyma 2.0

1986-1995

There was no Kyma version 3. Due to a superstition in the software industry, version 4 followed immediately after version 2

Publications — Book Chapters

Sonification ≠ music	Forthcoming
<i>Chapter in Alex McLean and Roger Dean (eds.) The Oxford Handbook on Algorithmic Music. New York: Oxford University Press</i>	
Metaphor in Mathematics and Sound	2007
<i>Chapter in Michele Emmer (ed.) Matematica e Cultura 2007. Milano: Springer-Verlag</i>	
Sound Synthesis Methods for Auditory Data Representation	1994
<i>Chapter in Gregory Kramer (ed.) Auditory Display: Sonification, audification, and auditory interfaces. Santa Fe Institute Studies in the Science of Complexity: Addison-Wesley</i>	
Using Sound to Extract Meaning from Complex Data	1991
<i>Chapter in Edward J. Farrell (ed.) Extracting Meaning From Complex Data: Processing, Display, Interaction II Volume 1459, SPIE-The International Society for Optical Engineering, San Jose</i>	
An Object-based Representation for Musical Signals,	1991
<i>Chapter in Giovanni De Poli, Curtis Roads and Aldo Piccilli, (ed.) Representations of Musical Signals, MIT Press, pp 371-389</i>	
The Kyma/Platypus Computer Music Workstation	1991
<i>Chapter in Stephen Pope (ed.) The Well-tempered Object: Musical Applications of Object-oriented Programming, MIT Press, pp 119-140</i>	

Publications — Articles

Looking Back, Looking Forward: a Keynote Address for the 2015 International Computer Music Conference	2016
<i>Cover story in Computer Music Journal, v40, n1, 2016.</i>	
http://www.mitpressjournals.org/doi/pdf/10.1162/COMJ_a_00341	
Computer Music Languages, Kyma, and the Future	2002
<i>Computer Music Journal, v26, n4, 2002</i>	
http://muse.jhu.edu/issue/2337	
Reflections on the 20th Anniversary of CMJ	1996
<i>Computer Music Journal, v20, n3, pp. 31-35, 1996.</i>	
http://www.symbolicsound.com/Learn/TwentiethAnniversary	
Kyma: an interactive graphic environment for object-oriented music composition and real-time software sound synthesis written in Smalltalk-80	1989
<i>University of Illinois at Urbana-Champaign Computer Science Department technical report, 1989.</i>	

- The Kyma/Platypus Computer Music Workstation 1989
Computer Music Journal, v13, n2, pp. 23-38, 1989.
- Composing Sound Objects in Kyma 1989
Perspectives of New Music, v27, n1, pp. 42-69, 1989.
- The CERL Music Project at the University of Illinois 1985
Computer Music Journal, v9, n1, pp. 45-58, 1985.

Publications — Proceedings

- A Framework for the Design, Development, and Delivery of Real-time Software-based Sound Synthesis and Processing Algorithms 1994
Proceedings of the 1994 Audio Engineering Society 97th Convention, San Francisco, 1994.
- The Software Architecture of the Kyma System 1993
Proceedings of the 1993 International Computer Music Conference, Tokyo, 1993.
- Polymorphic Transformations in Kyma 1992
Proceedings of the 1992 International Computer Music Conference, San Jose, October 1992.
- Lightweight Classes Without Programming 1991
Proceedings of the 1991 International Computer Music Conference, Montreal, Canada, October 1991.
- An Interactive Graphic Environment for Object-oriented Music Composition and Sound Synthesis 1988
Proceedings of the ACM Conference on Object-oriented Programming, Systems, Languages and Applications, pp. 222-233, 1988.
<http://dl.acm.org/citation.cfm?id=62084.62103&coll=portal&dl=ACM>
- Kyma: an Object-oriented Language for Music Composition 1987
Proceedings of the 1987 International Computer Music Conference, pp. 49-56, 1987.

Online Essays and Reviews

- Art and Science: an interdisciplinary workshop in Geneva 2015
Report on the GVA sessions published on Ear to the Earth web site.
<http://eartotheearth.org/2015/11/carla-scaletti/>
- Sonification of the world 2015
Essay on making data audible published on Ear to the Earth web site.
<http://eartotheearth.org/2015/01/sonification-of-the-world/>
- Music and the flow of meaning 2010
Review of Mark Johnson's The Meaning of the Body: Aesthetics of Human Understanding on Amazon.com

Publications — Books

- Kyma 7 Revealed Manuscript in preparation
Expands upon the material in Kyma X Revealed to include Galleries, Searching, Multigrids, the Wave Editor, and more.
- Kyma X Revealed: Secrets of the Kyma Sound Design Language 2004

Step-by-step tutorials, tips, shortcuts and sound design techniques, the book is written in an entertaining style that makes it fun and informative for both experienced Kyma users and beginners.

Symbolic Sound Corporation 2004 (430 pages)

Kyma.5 Walkthrough A Tutorial Introduction to Kyma.5	2002
The Kyma Language for Sound Design: Version 4.5	1997

Visiting Lectures, Workshops, Panels

Ask, Recombine, Tumble (ART)	2016
Strategies for overcoming writers' block in Kyma 7.1	
<i>For Charles Nichols' Computer Music course at Virginia Tech University</i>	
Tracing Computer Music back to Prehistoric Times	2016
Mastery over fire, the invention of software, and the World Wide Web	
<i>For Eric Lyon's History of Electornic Music course at Virginia Tech University in Blacksburg Virginia</i>	
Data sonification ≠ music	2016
<i>New York University Department of Music Colloquium</i>	
http://music.as.nyu.edu/object/music.colloquium.scaletti	
Panel Discussion on Music and Technology	2016
<i>with Phil Edelstein, Michelle Jaffe, Lauren Hayes, Izzi Ramkissoon, Troy Rogers, and Carla Scaletti. Dan Weymouth moderator</i>	
<i>cDACT 50th Anniversary of Experimental Arts Technology Colloquium</i>	
<i>organized by Margaret Schedel, Stony Brook University</i>	
http://cdact.stonybrook.edu/feat/colloquium/	
Emergence	2016
Can we create the necessary conditions for emergence to arise in Kyma?	
<i>Kyma International Sound Symposium</i>	
<i>De Montfort University Leicester, UK</i>	
https://vimeo.com/193469489	
What's new in Kyma 7.1	2016
Dynamical systems, spherical panning, galleries everywhere, and more	
<i>Kyma International Sound Symposium</i>	
<i>De Montfort University Leicester, UK</i>	
https://vimeo.com/191316552	
Design Patterns for Live Performance	2016
Recognizing recurring patterns helps you design new live performances	
<i>Kyma International Sound Symposium</i>	
<i>De Montfort University Leicester, UK</i>	
https://vimeo.com/188926550	
Kyma 7 for Sound Designers	2016
<i>Skywalker Sound Studio, Skywalker Ranch</i>	
Data-driven	2016
How scientific data-sonification changed the way I think about music	
<i>University of California Santa Cruz Graduate Colloquia Series</i>	
http://music.ucsc.edu/programs/graduate/scaletti-abstract	

- Inspiration and sound design in Kyma 7 2016
For Larry Polansky's students at the University of California Santa Cruz Graduate Workshop in Electronic Music
- What scientific data sonification taught me about music 2016
The Barlow Lecture at Brigham Young University
- Looking back, looking forward 2016
For Steven Ricks' composition students at Brigham Young University
- Design of Kyma System Software and Hardware 2016
For electrical engineering and composition students and faculty, Brigham Young University
- The Music for QUANTUM 2015
 Choreographer Gilles Jobin's CERN inspired dance piece
Cinéma Spoutnik, Geneva Switzerland
- New ways to play: visionary designers on their instruments 2015
With Gerhard Behles (Ableton Live), Roger Linn (LinnStrument), Stephan Schmitt (Native Instruments) and Carla Scaletti (Kyma), in conversation with Dennis DeSantis (author of Making Music) at Ableton Loop Conference Berlin
<https://www.ableton.com/en/blog/visionary-designers-and-their-instruments/>
- Looking back, looking forward 2015
A keynote address on the theme at the 41st International Computer Music Conference at the University of North Texas
<http://icmc2015.unt.edu>
- Picturing Sound (First Contact) 2015
By using light's interaction with sound pressure waves in the air, could we overcome our reliance on physical membranes for sound recording?
Kyma International Sound Symposium
Montana State University, Bozeman MT
<https://vimeo.com/188926550>
- Design Patterns for Controllers 2015
 Recognizing and re-using recurring parameter-control patterns
Kyma International Sound Symposium
Montana State University, Bozeman MT
<https://vimeo.com/150370447>
- Data sonification, Music, and Meaning 2015
Rensselaer Polytechnic Institute HASS Graduate Colloquium
<http://www.hass.rpi.edu/pl/news-s17/composer-carla-scaletti-speak-hass-graduate-colloquium-april-8>
- What is the most organic sound? 2014
 Syphillis, mitochondria, integral feedback and pilgrimage
Kyma International Sound Symposium
Musikhochschule Lübeck
<https://vimeo.com/113805611>
- Introduction to the new Kyma 2014
 Preview of the soon-to-be-released Kyma 7
Kyma International Sound Symposium
Musikhochschule Lübeck
- Data-driven Sound 2014
 What scientific data sonification has taught me about music
University of Virginia Graduate Music Colloquium
<http://music.virginia.edu/carla-scaletti-colloquium>

Seminars on data-sonification and Kyma 7 <i>New York University Steinhardt Media Studies Program</i>	2014
Composers Forum on Data Sonification <i>University of Illinois School of Music</i>	2014
Morphisms, Maps, Meaning and Magritte <i>Kyma International Sound Symposium</i> <i>LARAS/ISIB in Brussels</i> http://ssc-media.com/Movies/KISS2013/Scaletti-MorphismsMappingMeaningMagritte.mov	2013
Guest Artist at Future Music Oregon <i>Concert, lectures, and an all-day sound design workshop at the University of Oregon in Eugene for students of Jeffrey Stolet and professional composers from Arizona, California, New Mexico, Washington, and Oregon</i>	2013
Reel time versus Real Time <i>Kyma International Sound Symposium</i> <i>St Cloud State University in St. Cloud MN</i> https://www.youtube.com/watch?v=CzKakyqADCU	2012
Sound Design in Kyma <i>Six-hour intensive workshop</i> <i>Kyma International Sound Symposium</i> <i>St Cloud State University in St. Cloud MN</i> https://www.youtube.com/watch?v=xDeP2T6rOTc	2012
Intensive Kyma seminar for composers <i>For composition students of Eric Chasalow at Brandeis Electro-Acoustic Music Studio (BEAMS), taught via two channels of iChat when an extensive blizzard closed airports from Chicago to Boston</i>	2011
Exploring Sound Space <i>Time, space, metaphor, sync and the power of science fiction</i> <i>Kyma International Sound Symposium</i> <i>Casa da Musica in Porto, Portugal</i> http://ssc-media.com/Movies/KISS2011/ExploringSoundSpace.mov	2011
Pre-conference workshop on Kyma <i>SEAMUS Conference in St Cloud Minnesota</i>	2010
Sound for Dance Workshop <i>Gilles Jobin's GVA Sessions in Geneva Switzerland</i>	2010
Music is not a language <i>Embodied cognition and the enrichment of language</i> <i>Kyma International Sound Symposium</i> <i>Casino Baumgarten, Vienna Austria</i> http://ssc-media.com/Movies/KISS2010/ScalettiKeynoteKISS2010.mov	2010
Composers' Forum <i>Brooklyn College Conservatory of Music students of George Brunner</i>	2009
Kyma, Pacarana and mapping to external controls <i>Electronic Music Foundation Studio in Manhattan</i>	2009
Exploring 2-d parameter space with the Wacom tablet <i>SEAMUS conference on Human Interface Devices in Ft Wayne</i>	2009
Recombination makes us human <i>Kyma International Sound Symposium</i> <i>Barcelona, Spain</i>	2009
Guest composer (lectures and concert) <i>Future Music Oregon, University of Oregon in Eugene with a sneak peek at the new Pacarana & premiere performances of SlipStick and Cyclonic</i>	2008

Athens Electromedia Works Festival	2008
<i>Lectures and concerts as part of a festival in Athens Greece (featuring a surprise sneak peek at the new Pacarana)</i>	
Seminar on composition with Kyma	2008
<i>For composition students of Andreas Mniestris, co-taught with Joel Chadabe at Ionian University in Corfu, Greece</i>	
Annual 30-hour course in sound-based music composition	2001-2007
<i>Center for Creation of Music Iannis Xenakis (CCMIX) in Paris</i>	
Sound design in Kyma	2006
<i>Gary Kendall's Music Technology students at Northwestern University</i>	
Metaphor in Mathematics and Sound	2006
<i>Invited talk at Matematica e Cultura in Venice</i>	
The Body in the Sound: Can non-speech audio convey meaning? (and if so, what does it mean?)	2005
<i>Invited talk at the Laboratory for Creative Arts & Technologies in Baton Rouge, Louisiana</i>	
A Sound is a sound is a sound: The design and implementation of a language for specifying manipulating, combining and controlling digital audio signals	2005
<i>Invited talk at the Laboratory for Creative Arts & Technologies in Baton Rouge, Louisiana</i>	
Three-day Seminar on Sound Design	2004
<i>Ionian University in Corfu, Greece</i>	
London Kyma Users' Group Seminar	2003
<i>Tape Gallery in London, UK</i>	
Kyma Workshop	2002
<i>University of West London</i>	
Invited concert and lecture	2002
<i>Keele University, Keele, UK</i>	
Aggregate Synthesis	2002
<i>SEAMUS Conference in Iowa City Iowa</i>	
The Body in the Sound: Communicating with nonspeech audio	2002
<i>De Montfort University, Leicester UK</i>	
Aggregate Synthesis & FireWire	2001
<i>Presented on a 10-city tour during November undertaken in response to 9/11: St Louis, Nashville, Atlanta, Raleigh/Durham, Washington DC, New York, Pittsburgh, Cleveland, Detroit, Chicago</i>	
Kyma.5 in Electroacoustic Composition	2001
<i>SEAMUS Conference in Baton Rouge, Louisiana</i>	
Intensive Workshop on Sound Design	2000
<i>DIEZE (SIS) Film Sound Studios in Paris</i>	
Guest composer at KTH (Academy of Media Arts)	2000
<i>Cologne, Germany</i>	
Intensive Kyma Workshop	2000
<i>LoveBytes Institute in Sheffield UK</i>	
London Users Group Seminar	2000
<i>The Tape Gallery in London UK</i>	
Guest Professor	1999
<i>Institut für Electroakustik und Experimentelle Musik an der Universität für Musik und darstellende Kunst in Vienna, Austria</i>	

Guest Composer (concert and lectures) <i>University of Oregon Future Music Studios in Eugene Oregon</i>	1999
Kyma.5 Recombinant Sound <i>Lecture/Demonstration at Engine 27, New York City</i>	1999
Guest Composer (concert and lectures) <i>Institut für Electroakustik und Experimentelle Musik an der Universität für Musik und darstellende Kunst in Vienna, Austria</i>	1998
Guest Composer (concert and lectures) <i>Institut für Electroakustik und Experimentelle Musik an der Universität für Musik und darstellende Kunst in Vienna, Austria</i>	1998
Public Organ: Under the table and across the web <i>Bruckner Conservatory / SAMT. Linz/Hagenberg, Austria</i>	1996
Kyma: A Language for Creating and Manipulating Sound <i>Musikhochschule. Vienna, Austria</i>	1996
Sounds, Symbols, and Cyborgs <i>Alte Schmiede. Vienna, Austria</i>	1996
The Body in the Sound: Listener-Centered Sound Design <i>University of Kingston. London, UK</i>	1996
Kyma: A Language for Creating and Manipulating Sound <i>University of Kingston. London, UK</i>	1996
Kyma: an Overview <i>Bruckner Conservatory / SAMT. Linz/Hagenberg, Austria</i>	1996
Guest Composer <i>NoTAM in Oslo, Norway</i>	1996
An Object-based Representation for Digital Audio Signals <i>Microsoft Corporation. Redmond, Washington</i>	1995
A Language for Digital Audio Signals <i>Computer Science Colloquium. University of Chicago</i>	1994
Invited pre-conference tutorial on the Kyma language <i>International Computer Music Conference in Aarhus Denmark</i>	1994
Paper chair on computer music languages session <i>International Computer Music Conference in Aarhus Denmark</i>	1994
California Institute of the Arts Composer-in-residence <i>Two weeks of teaching and collaborations at CalArts and the Internet Café</i>	1994
Kyma 2.0 for Windows <i>Society for Electro-acoustic Music in the United States, Austin, Texas</i>	1993
Introduction to Data Sonification <i>ACM SIGGRAPH tutorial course with Brian Evans and Robin Bargar, Anaheim, California</i>	1993
Advanced Kyma Workshop <i>EMS in Stockholm Sweden</i>	1992
Dartmouth College Graduate Timbre Seminar <i>Two weeks of lectures for Larry Polansky's students in music technology</i>	1992
Computer Music in Kyma <i>Musik Hochschule, Vienna Austria</i>	1992
Sound Synthesis Methods for Auditory Data Representation <i>First International Conference on Audio Display, Santa Fe Institute</i>	1992
The Kyma System <i>invited paper at the Acoustical Society of America conference, Houston</i>	1991

Kyma	1991
<i>Society for Electro-acoustic Music in the United States, Urbana, Illinois</i>	
Kyma language for controlling digital signal processing hardware	1991
<i>Workshop on Signal Processing, Universita' degli Studi di Roma "La Sapienza", Dipartimento di Fisica, Rome, Italy</i>	
Special paper session on the Kyma System	1991
<i>International Computer Music Conference in Montreal</i>	
Intensive Workshop in Sound Computation	1991-1993
<i>CERL Sound Group two-week intensive workshop at the Beckman Institute for Advanced Science and Technology University of Illinois</i>	

Reviewing and Thesis Advising

Paper reviewer for International Computer Music Conference	1994-2001, 2014-Present
External thesis committee member	2016-Present
<i>Senem Pirlir doctoral candidate in Arts at Rensselaer Polytechnic Institute</i>	
External thesis committee member	1995
<i>Mark Ballora PhD in music technology emphasis on auditory displays to illustrate data at McGill University</i>	
Paper reviewer for ACM SIGGRAPH	1994
Paper reviewer for International Conference on Auditory Display	1992, 1994
At large reviewer for NSF Special Section on Computer-Human Interface	1992

Organizational Experience (conferences and seminars)

Kyma International Sound Symposium (KISS) co-organizer	2009-Present
<i>Collaborate with representatives of host institution on developing a theme, creating a call for participation, organizing the selection and review committee, creating the program of talks and concerts, designing and funding a memento for participants, presenting a keynote on the theme, pre-conference master class, presenting new research on the morning program and compositions on the evening concerts</i>	
KISS2016—Emergence (subtheme: Crossing Boundaries)	2016
<i>Organized with Craig Vear and Simon Smith at De Montfort University</i> http://kiss2016.symbolicsound.com/call-for-proposals/	
KISS2015—Picturing Sound (subtheme: First Contact)	2015
<i>Organized with Theo Lipfert at Montana State University</i> http://kiss2015.symbolicsound.com/call-for-proposals/	
KISS2014—Organic Sound (subtheme: Thomas Mann)	2014
<i>Organized with Franz Danksagmüller at Musikhochschule Lübeck</i> http://kiss2014.symbolicsound.com/call-for-proposals/	
KISS2013—INTER faces (subtheme: Magritte)	2013
<i>Organized with Rudi Giot and Jacques Tichon at LARAS/ISIB, Brussels</i> http://kiss2014.symbolicsound.com/call-for-proposals/	
KISS2012—Reel Time vs Real Time	2012
<i>Organized with Scott Miller at St Cloud State University</i> http://kiss2012.symbolicsound.com/call-for-proposals/	

KISS2011—Exploring Sound Space	2011
<i>Organized with Eduardo Magalhaes at Casa da Música Porto</i>	
<i>http://kiss2011.symbolicsound.com/welcome/call-for-proposals/</i>	
KISS2010—Symbolic Sound (subtheme: Meaning in Music)	2010
<i>Organized with Bruno Liberda and Peter Rantassa in Vienna</i>	
<i>http://www.symbolicsound.com/cgi-bin/bin/view/Learn/KISS2010/</i>	
KISS2009—Kyma	2009
<i>Organized with Cristian Vogel in Barcelona</i>	
<i>http://www.symbolicsound.com/cgi-bin/bin/view/Learn/KISS2009/</i>	
Café Sci	2006
<i>Organized a Café Scientifique in Champaign Illinois, monthly meetings where the public could ask questions of a researcher at a local coffee house, described by the local PBS affiliate: “The public television series “Nova” knew it long ago – people are interested in science, especially if it’s boiled down into how it affects their life and the world around them. A Champaign woman (Carla Scaletti) is helping turn that interest into a two-way discussion in a friendly atmosphere. AM 580’s Tom Rogers went to the first local meeting”</i>	

Compositions and Performances

Bubble and squeak	Work in progress
Double-well for audience processed through Kyma	2016
<i>Virginia Tech DSIS Cube Concert (139 speakers)</i>	
<i>University of Illinois Studio Theatre Ensemble Modern Concert</i>	
<i>Stony Brook fE.A.T. Concert (world premiere)*</i>	
Conductus for pipe organ, Kyma and three singers in tap shoes	2014
<i>Written for Franz Danksagmüller, organ; Birte Prüfert, Theresa Szorek & Iga Osowska, voice; Anne Michael, rehearsal conductor; and the extraordinary reverberation of Jakobikirche Lübeck</i>	
<i>http://carlascaletti.com/sounds/sound-art/conductus/</i>	
QUANTUM	2013
<i>40’ score for choreographer Gilles Jobin’s CERN inspired dance piece</i>	
<i>Le Granit / Scène national - Belfort – France (2017)</i>	
<i>3-city tour of Argentina 2016</i>	
<i>St Petersburg Russia, Porto Portugal, Strasbourg France (2016)</i>	
<i>Barcelona Spain 2015, Berlin Germany, Forbach France (2015)</i>	
<i>5-city tour of Mexico (2015)</i>	
<i>Meyrin Switzerland 2015, 2-city tour of India (2015)</i>	
<i>France, Uruguay, Brazil, Bulgaria (2014)</i>	
<i>New York (Brooklyn Academy of Music), San Francisco, Vancouver (2014)</i>	
<i>Chile, Brazil, Peru, Lausanne (2014)</i>	
<i>Theatre de la Cité Internationale Paris (2013)</i>	
<i>9 Performances at the CMS Experiment site at CERN (2013)</i>	
Spider Galaxies	2011
<i>60’ score for choreographer Gilles Jobin’s dance piece, co-composed with</i>	
<i>Cristian Vogel, performed by POL</i>	
<i>Tbilisi Georgia 2013</i>	
<i>2-city tour of Mexico 2012</i>	
<i>Tunis, Tunisia 2012</i>	
<i>Theatre Les Halles Sierre Switzerland & Montpellier France 2012</i>	
<i>Tour of Switzerland, Italy, France, Libya, Syria 2011</i>	

...odd kind of sympathy for audience processed through Kyma <i>Brigham Young University (2016)</i> <i>Future Music Oregon (2013)</i> <i>Casa da Musica Porto Portugal (2011)</i>	2011
Autocatalysis for audience processed through Kyma <i>Future Music Oregon (2013)</i> <i>Casino Baumgarten Vienna (2010)</i>	2010
Cyclonic <i>Cinéma Spoutnik with Peter Mettler live image-mixing Geneva (2015)</i> <i>SEAMUS in St Cloud MN (2010)</i> <i>Future Music Oregon (2008)</i>	2008
SlipStick for Continuum fingerboard controlling Kyma https://www.youtube.com/watch?v=eAVLrtOrcyc <i>SEAMUS in Ft Wayne IN 2009</i> <i>KISS in Barcelona 2009</i> <i>Future Music Oregon 2008</i>	2008
Frog Pool Farm <i>BBC 3 Late Junction with Verity Sharp 2016</i> http://www.bbc.co.uk/programmes/p04dbmt2 <i>GraphicalSound's Kyma Sonic World Podcast 2005</i> <i>Electric Pacific in San Jose CA 2005</i> <i>Herbert Brün Festival Urbana, IL 2003</i> <i>Recontres 2002 Musique et Arts visuels in Paris</i> <i>City Gallery in Leicester UK 2002</i> <i>Keele University, UK 2002</i>	2002
Lament for narrator processed through Kyma <i>City Gallery Leicester (2002)</i> <i>As the opening for nearly every Kyma demo for many years</i>	1999
Tangled Timelines for Celtic harp and Kyma <i>City Gallery Leicester UK (2002)</i> <i>Keele University UK (2002)</i> <i>CCMIX Paris (2002)</i> <i>Engine 27 New York City (1999)</i> <i>Future Music Oregon (1999)</i>	1999
Public Organ <i>International Computer Music Conference in Banff</i>	1995
Mitochondria <i>Humor y Aliento 2nd International Art Festival Mexico City (2000)</i> <i>Future Music Oregon (1999)</i> <i>KymaFest Concert in London UK (1996)</i> <i>International Computer Music Conference Aarhus Denmark (1994)</i>	1994
Trinity for narrator processed through Kyma <i>Kyma concert Vienna (1992)</i> <i>International Computer Music Conference in Columbus OH (1989)</i> <i>Hear and Now Urbana IL (1989)</i>	1989
sunSurgeAutomata <i>Computer Music Project Anniversary Concert Urbana IL (2014)</i> <i>Come, Hear! Lancaster UK (2000)</i> <i>Studio Exchanges Montreal (2000)</i> <i>Future Music Oregon (1999)</i> <i>EuCuE Series Montreal (1997)</i>	1987

- Corpi del Suono L'Aquila Italy (1997)*
Aesthetics and Ideologies West Lansing MI (1994)
Ultima Oslo Contemporary Music Festival (1993)
Oberlin Conservatory (1991)
International Computer Music Conference Urbana IL (1987)
Northwestern University Chicago IL (1987)
Michigan State University West Lansing (1987)
SCREAM Festival Los Angeles (1987)
American Conference on Cybernetics Urbana IL (1987)
Computer Music Weekend Vancouver (1987)
- Levulose for double-bass and CERL Interactive Music System** 1986
Jackie Puckette bass / Howard Werschel Kyma Atlanta GA (1992)
Alex McHattie/Performers' Workshop European Tour (1991)
Mike Price bass recitals in Urbana, IL (1985)
Mike Price recital Oslo (1985)
- X Bar for piano and CERL Interactive Music System** 1986
David Liptak, piano Contemporary Chamber Players Urbana IL (1986)
David Liptak & Contemporary Chamber Players Carbondale IL (1986)
- Lysogeny for concert harp and Music 360-generated tape** 1983
Susan Allen, harp Musica Verticale in Rome (1993)
Susan Allen Festival of New Music Darmstadt (1988)
Susan Allen Women in Music Heidleberg (1988)
Susan Allen harp recital Los Angeles (1988)
Third Electronic Festival University of Louisville (1985)
Indiana University (1985)
MIT With Strings Attached (1985)
Alyssa Hess, harp at New York University (1984)
Alyssa Hess, harp at Columbia University (1984)
Alyssa Hess at Gustavus Adolfus Church (1984)
International Computer Music Conference Rochester (1983)
Tage Neuer Musik Bonn (1983)
New Mexico Composers' Symposium Albuquerque NM (1983)
Performers' Workshop Concert Urbana IL (1983)
Midwest Composers' Symposium Ann Arbor (1983)
- Blood Wedding for 10 instruments and actor/singers** 1982
One hour of incidental music and song settings for Garcia Lorca's play
7 performances at Krannert Center Urbana, IL (1982)
- Yes for mezzo soprano and Buchla-generated tape** 1981
Midwest Composers Symposium Oberlin OH (1981)
Computer music concert Urbana IL (1981)
- Motet for mezzo soprano, bass clarinet, harp, and narrator** 1977
Taos Music Festival Taos NM (1978)

Recordings (Compositions)

- sunSurgeAutomata** 1989
CDCM Computer Music Series, Vol. 3, Centaur Compact Disk CRC 2045
- Lysogeny** 1984
25th Anniversary of the Experimental Music Studios of the University of Illinois Commemorative Album
- Motet** 1977

Opus One Records Number 42, Max Schubel producer

Recordings (Harp solo or small ensemble)

Lysogeny <i>25th Anniversary of the Experimental Music Studios of the University of Illinois Commemorative Album</i>	1984
Ragwyrk for Harp and for Carla Scaletti <i>Max Schubel, Opus One Records Number 50</i>	1979
Piece <i>Jordan Tang, Opus One Records Number 42</i>	1977
thank you god for most this amazing <i>Joanne Forman, Opus One Records Number 34</i>	1977

Affiliations/Memberships

• Editorial Advisory Board, Computer Music Journal	2016-Present
• Associate Editor & Member, Ear to the Earth (eartotheearth.org)	2015-Present
• Member, Association for Computing Machinery (ACM)	1987-Present
• Member, Institute of Electronic and Electrical Engineers (IEEE)	1993-Present

Interests

- Inventing new sound synthesis and processing algorithms
- Automating the process of sound design and discovery to assist sound designers and composers
- Distributed cognition
- Scientific data sonification—assisting researchers in understanding, interpreting, and communicating their results by mapping their data to sound
- Experimental music composition and live interactive performance
- Meaning in non-speech audio (especially in music and data sonification)
- Intuitive, efficient interfaces for sound design, music composition and performance
- Embodied cognition (Mark Johnson and George Lakoff) and its implications for data sonification and music