

Steven T. Kemper

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EDUCATION

Ph.D., Music Composition and Computer Technologies, University of Virginia, December 2012
Dissertation: *From Sacred Narrative to Evocations of Ancientness: Mythical meaning in contemporary music*
M.M., Music Composition, Bowling Green State University, August 2006
B.A., Music, Bowdoin College, May 2003
Honors in music

TEACHING EXPERIENCE

Associate Professor of Music, Rutgers University, 2019-present

Assistant Professor of Music, Rutgers University, 2013-2019

07:700:515: Computer Composition (Fall 2014-2017, 2019)
07:700:470: Electroacoustic Musical Instrument Design (Fall 2018)
07:700:469: Interactive Computer Music (Spring 2015-2016, 2018-2020)
07:700:375: Composition Practicum (Spring 2015-2016)
07:700:284: Digital Audio Composition (Spring 2014-2015, 2018-2020, Fall 2017-2019)
07:700:127: Introduction to Music Technology (Spring 2014, Fall 2013)
07:700:105: Making Music with Computers: Introduction to Digital Audio (Spring 2016, Fall 2014-2016)
07:701:X76: Composition Lessons, Graduate/Undergraduate (Spring 2014-present)
07:701:304: Rutgers Interactive Music Ensemble (Spring 2018-2020, Fall 2018)
01:090:101: Handmade Sound: Making sound art and music with electronics, Aresty-Byrne Seminar (Fall 2014-2020)

Adjunct Faculty, University of Virginia, 2011

MUSI 3370: Songwriting (Spring 2011)

Instructor, University of Virginia, 2008-2012

MUSI 1310: Basic Musical Skills, Introduction to Music Theory (Fall 2012, 2009)
ENGR 3580: Music and Physical Computing (Fall 2010)
MUSI 211: Art and Architecture Through Music (Summer 2008)

Teaching Assistant, University of Virginia, 2006-2012

MUSI 3332: Beginning Musicianship, Aural Skills (Spring 2012, 2007)
MUSI 3334: Intermediate Musicianship, Aural Skills (Fall 2011, 2006)
MUSI 2350: Technosonics, Introduction to Digital Music (Spring 2010, 2008)
MUSI 337: Introduction to Songwriting (Spring 2009)
MUSI 339: Introduction to Music and Computers (Fall 2008)
MUSI 104: Exploring the Orchestra (Fall 2007)

NATIONAL & INTERNATIONAL AWARDS, COMMISSIONS, GRANTS, AND RESIDENCIES

Willapa Bay AiR residency, Oysterville, WA, September 2020 (*cancelled due to COVID-19)
Alion Baltic International Music Festival, Invited Composition Faculty, Tallinn, Estonia, July 2018
Ammerman Center for Arts and Technology, Commissioned Work, "Why Should our Bodies End at the Skin?" Intersections: the 16th Biennial Symposium on Arts and Technology, Connecticut College, February 2018

National Endowment for the Arts, NEA Artworks Grant, “Listening to the City” workshop and toolkit, co-sponsored by Massachusetts Institute of Technology and LA Listens, 2017
Banff Centre for Arts and Creativity Residency, Banff, Canada, January-February 2017
Rhythmanalysis I: New Brunswick (string quartet and computer) commissioned by the family of Robert Moevs, former composition faculty at Douglass College/Rutgers, 2016
Queens Arts Fund Grant, Department of Cultural Affairs, Greater New York Arts Development Fund, 2015
Danish Arts Council Research Grant, Sound and Music Computing Conference concert curator, 2012
Guthman Musical Instrument Competition, finalist: Monochord-Aerophone Robotic Instrument Ensemble (MARIE), 2012
Studio for Electro-Instrumental Music (STEIM) residency, Amsterdam, 4/10-4/13/2011
Meet the Composer MetLife Creative Connections Award, EMMI and EAR Duo tour, 2011
International Computer Music Association 2010 Student Award for Best Submission, *Shadows no. 5*, 2010
Guthman Musical Instrument Competition, semifinalist: (multi)-Mallet Automatic Drumming Instrument (MADI), 2009
Orford Sound Art Workshop, Centre d’Arts Orford, Orford, Québec. Workshop with Yves Daoust, Alain Savouret, Paul Koonce 2007
Run From Fear (fl., cl., pf., vc., db.) commissioned by Bowdoin College to celebrate the opening of the Studzinski Recital Hall, 2007

UNIVERSITY AWARDS

University Research Council, Tremolo-Chimes: An interactive robotic sound sculpture, Rutgers University, 2020-2021
University Research Council, *Mythical Spaces*: an album of electroacoustic music, Rutgers University, 2017-2018
University Research Council, PERSI: Developing a Polyphonic Electroacoustic Robotic String Instrument, Rutgers University, 2014-2015
Award for Excellence in Scholarship in the Humanities & Social Sciences, University of Virginia, 2011
Selected to represent University of Virginia at the Virginia Council of Graduate Schools Graduate Student Research Forum, 2011
Palladian Chamber Orchestra Composition Competition Winner, *River Anna*, University of Virginia, 2011
University of Virginia Sciences, Humanities & Arts Network of Technological Initiatives (SHANTI) Cohorts Fellow, 2009-2010
Robert J. Huskey Graduate Research Exhibition second place poster award: “Expressive Machines Musical Instruments,” University of Virginia, 2008
Katzner and University Bookstore Funds for Graduate Student Research and Professional Development Award, Bowling Green State University, 2005
William H. Moody Prize, Department of Theater and Dance, Bowdoin College, 2003

JOURNAL PUBLICATIONS

Vilelmini Kalampratsidou and Steven Kemper, “Real-time proxy-control of re-parameterized peripheral signals using close-loop interface,” *Journal of Visualized Experiments (JoVE)* in review, estimated publication Fall 2020.
Aurie Hsu and Steven Kemper, “Enacting Sonic-Cyborg Performance through the Hybrid Body in *Teka-Mori* and *Why Should Our Bodies End at the Skin?*” *Leonardo Music Journal* 29 (December 2019): 83-87.

- Steven Kemper and Rebecca Cypess, "Can Musical Machines Be Expressive? Views from the Enlightenment and Today," *Leonardo* 52, no.5 (October 2019): 448-454.
https://doi.org/10.1162/LEON_a_01477.
- Rebecca Cypess and Steven Kemper, "The Anthropomorphic Analogy: Humanising musical machines in the early modern and contemporary eras," *Organised Sound* 23, no. 2 (2018): 167-180.
- Wendy Hsu and Steven Kemper, "How We Re-Listen to a Changing City: Engaging the Senses, Community, and Data through *LA Listens*," *Noise & Silence*, 2 (2016).
- Steven Kemper, "Electroacoustic Techniques in Electromechanical Music: Musical Robots as 'Real' Virtual Instruments," *Journal SEAMUS: The Journal of the Society for Electro-Acoustic Music in the United States* 26, 1-2 (2015): 16-21.
- Steven Kemper, "Composing for Musical Robots: Aesthetics of electromechanical music," *Emille: The Journal of the Korean Electro-Acoustic Music Society* 12 (2014), 25-31.
- Matthew Burtner, Steven Kemper, and David Topper, "Network Socio-Synthesis and Emergence in NOMADS," *Organised Sound* 17, no. 1 (2012): 45-55.
- Steven Kemper, "Review of the Threshold festival," *Journal SEAMUS* 18, no. 2 (2005): 45-46.

CONFERENCE PROCEEDINGS AND OTHER PUBLICATIONS

- Steven Kemper, "Tremolo-Harp: A Vibration-Motor Actuated Robotic String Instrument" in *Proceedings of the 20th International Conference on New Interfaces for Musical Expression (NIME)* (Royal Birmingham Conservatoire, Birmingham, UK, 2020): 301-304.
- Aurie Hsu and Steven Kemper, "The Hybrid Body and Sonic-Cyborg Performance in Why Should Our Bodies End at the Skin?" in *Proceedings of the 13th International Conference on Tangible, Embedded, and Embodied Interactions (TEI)* (Arizona State University, Tempe, Arizona, 2019): 547-551.
- Steven Kemper and Scott Barton, "Mechatronic Expression: Reconsidering Expressivity in Music for Robotic Instruments" in *Proceedings of the 18th International Conference on New Interfaces for Musical Expression (NIME)* (Virginia Tech University, Blacksburg, VA, 2018): 84-87.
- Steven Kemper, "MYTHICAL SPACES: An Album of Electroacoustic Music Exploring Mythical Time and Space," *Sonograma Magazine*, no. 38
<http://sonograma.org/2018/04/mythical-spaces-an-album-of-electroacoustic-music-exploring-mythical-time-and-space/> (April 2018).
- Steven Kemper, glossary entries for "Acoustic Ecology" (168) and "Periodicity" (170); Wendy Hsu, Steven Kemper, and Jessica Blickley, "LA Listens" (76-81), in *Listening to the City: Community Research and Action through Sound and Story*. Handbook. (MIT Community Innovators Lab, 2018).
- Aurie Hsu and Steven Kemper, "Why Should Our Bodies End at the Skin? Enacting Cyborg Performance" in *Proceedings of the 16th Biennial Symposium on Arts & Technology* (Connecticut College, New London, CT, 2018): 34-36.
- Wendy Hsu, Steven Kemper, Josef Taylor, Linda Wei, and Jacob Sargent, "Project Snapshot: Movable Party" in *Making Things and Drawing Boundaries: Experiments in the Digital Humanities*, ed. Jentery Sayers (Minneapolis: University of Minnesota Press, 2017), 249-50.
- Aurie Hsu and Steven Kemper, "Kinesonic Composition as Choreographed Sound: Composing Gesture in Sensor-Based Music" in *Proceedings of the 2015 International Computer Music Conference* (University of North Texas, Denton, TX, 2015): 412-415.
- Aurie Hsu and Steven Kemper, "Kinesonic Approaches to Mapping Movement and Music with the Remote electroAcoustic Kinesthetic Sensing (RAKS) System," in *Proceedings of the 2015 International Workshop on Movement and Computing* (Vancouver, BC, 2015): 45-47.
 doi: 10.1145/2790994.2791020.

- Troy Rogers, Steven Kemper, and Scott Barton, "MARIE: Monochord-Aerophone Robotic Instrument Ensemble" in *Proceedings of the 15th International Conference on New Interfaces for Musical Expression (NIME)* (Louisiana State University, Baton Rouge, LA, 2015): 408-411.
- Steven Kemper, "Listening to the Streets: What sounds do vehicular traffic mask?" MIT CoLab Radio, <http://colabradio.mit.edu/listening-to-the-streets-what-sounds-do-vehicular-traffic-mask/> (April 2015).
- Wendy Hsu, Steven Kemper, and Jessica Blickley, "Investigating Vibrancy through Listening to Urban Sounds," MIT CoLab Radio, <http://colabradio.mit.edu/investigating-vibrancy-through-listening-to-urban-sounds/> (April 2015).
- Scott Barton and Steven Kemper, "Drum Circle" in *Workshops in International Conference on Social Robotics ISCR* (UTS ePress, 2014).
- Steven Kemper, Wendy Hsu, Carey Sargent, Josef Taylor, Linda Wei, "Movable Party: a bicycle-powered system for interactive musical performance" in *Proceedings of the 2014 International Computer Music Conference and Sound and Music Computing Conference* (Athens, Greece: ICMC/SMC, 2014) 527-531.
- Aurie Hsu and Steven Kemper, "*shadows No. 4: Belly Dance and Interactive Electroacoustic Musical Performance,*" in *Proceedings of the 28th International Conference on Human Factors in Computing Systems* (New York: Association for Computing Machinery, 2010): 3117-3119.

RECORDINGS

- Steven Kemper, *Mythical Spaces*, Ravello Records RR7980, CD (2018).
- Matthew Burtner, *Auksalak* (NOMADS Software development and Telematic production crew), EcoSono, DVD (2013).
- Steven Kemper, Scott Barton, and Troy Rogers, "Drum Circle," *Agents Against Agency*, EcoSono, DVD (2011).

SELECTED PERFORMANCES

- Selections for RAKS system and CADI Robotic Percussion. *New Sounds Festival*, Western Michigan University, 3/20/2020 (*concert presented virtually due to COVID-19)
- Selections for RAKS system and CADI Robotic Percussion. *Fata Morgana*, Eskenazi Fine Arts Center, IUPUI, Indianapolis, IN, 10/3-10/5/2019
- Why Should Our Bodies End at the Skin?* (belly dancer, RAKS system, CADI: Configurable Automatic Drumming Instrument, live sound processing). 13th International Conference on Tangible, Embedded, and Embodied Interactions (TEI), Tempe Center for the Arts, Tempe, Arizona, 3/19/2019
- Lament* (flute and computer). 2018 International Computer Music Conference (ICMC). Daegu Concert House Chamber Hall, Daegu, Korea, 8/10/2018
- Teka-Mori* (electroacoustic music, belly dancer, RAKS system). *Interactive Arts Performance Series*, Frederick Loewe Theatre, NYU Steinhardt, New York, NY 10/16/2017
- Boyle Heights (Rhythmanalysis II)* (marimba and fixed media electronics). Zeltsman Marimba Festival, Nicholas Music Center, Mason Gross School of the Arts, Rutgers University, New Brunswick, NJ 7/7/2017
- Mecexpression Study 1* (CADI: Configurable Automatic Drumming Instrument and live processing). 2017 New Interfaces for Musical Expression (NIME) conference, Kommunal Kunst og Teknik, Copenhagen, Denmark, 5/17/2017
- Teka-Mori*. 2016 International Computer Music Conference (ICMC), TivoliVredenburg Cloud Nine, Utrecht, The Netherlands, 9/16/2016
- Mythical Spaces* (percussion, amplified vessels, and electroacoustic music). SPLICE Institute, Dalton Center Recital Hall, Western Michigan University, Kalamazoo, MI, 6/30/2016

Lament. 2016 New York City Electroacoustic Music Festival (NYCEMF), Abrons Art Center, New York, NY, 6/15/16

Breath (electroacoustic music for video). Seeing Sound, Commons Preview Cinema, Bath Spa University, Bath, UK, 4/9-4/10/2016

Submerged from *shut.eye*, (electroacoustic music for dance). The Secret Theatre, Long Island City, NY, 4/1-4/3/2016

Conjuring the Machine (electric guitar, TAPI: Transportable Automatic Percussion Instrument, and live processing). 15th International Conference on New Interfaces for Musical Expression (NIME), Varsity Theater, Louisiana State University, 6/3/2015

Mystification (flute, clarinet, violin, cello, piano, live processing). Helix! New Music Ensemble, Le Poisson Rouge, New York, NY, 4/12/2015

Mythical Spaces. 2014 Joint meeting of the International Computer Music Conference and Sound and Computing Music Conference, Onassis Cultural Center, Upper Theater, Athens, Greece, 9/15/2014

Lamentation from *Houseguest* (electroacoustic music for dance). Martha Graham Center of Contemporary Dance, New York, NY, 6/7-6/9/2013

Movable Party (bicycle-powered interactive music installation). *Ciclavia*, Los Angeles, CA, 4/21/2013

Microbursts (Monochord-Aerophone Robotic Instrument Ensemble, Transportable Automatic Percussion Instrument). 9th Sound and Music Computing conference, Den Frie Center of Contemporary Art, Copenhagen, Denmark, 7/14/2012

In Illo Tempore (saxophone, bassoon, Monochord-Aerophone Robotic Instrument Ensemble). The Peabody Institute of the Johns Hopkins University, Cohen-Davison Theater, Baltimore, MD, 1/30/2012

1, 2, and 3 for MARIE (saxophone, bassoon, Monochord-Aerophone Robotic Instrument Ensemble). EMMI and EAR Duo Residency at MIT. Killian Hall, Massachusetts Institute of Technology, Cambridge, MA, 3/30/2011

shadows no. 5 (electroacoustic music, tribal-fusion belly dancer, RAKS system). Selected for performance by the International Computer Music Conference (ICMC) selection committee. ICMC, Tabler Theater, Stony Brook University, Stony Brook, NY, 6/4/2010

Neoga (electroacoustic music and video). Seoul International Computer Music Festival, Seoul, Korea, 11/23/2006

PRESENTATIONS

“Tremolo-Harp: A Vibration-Motor Actuated Robotic String Instrument.” Virtual Poster Presentation. 20th International Conference on New Interfaces for Musical Expression (NIME) Royal Birmingham Conservatoire, Birmingham, UK, 7/24/2020

“Re-imagining Electroacoustic Performance, Music for Interactive Dance with the RAKS System.” Invited lecture. Western Michigan University, 3/19/2020 (*presented virtually due to COVID-19)

“Mechatronic Expression: Making Music with Robotic Instruments.” Invited lecture. Music Studies Colloquium, Boyer College of Music and Dance, Temple University, 1/17/2020

“Space, Place, and Robots.” Invited lecture. MFA program in Visual Arts Visiting Artist Lecture series, Mason Gross School of the Arts, Rutgers University, 10/30/2019

Leonardo Book Club. Invited virtual discussion based on the article “Can Musical Machines Be Expressive? Views from the Enlightenment and Today.” 10/30/2019

“Dance from the Heart: A Dance Performance of Sounds Led by the Dancer’s Heart.” Poster presentation. 6th International Conference on Movement and Computing (MOCO ’19) Tempe, AZ, USA, 10/11/2019

- “Sounding the Word: Exploring religious symbolism in the music of Judith Shatin.” Invited lecture. Hearing Things: A Celebration of Music by Judith Shatin, University of Virginia, 4/5/2019
- “Controlling DC Motors and Solenoids for Kinetic Sound Art and Music.” Invited workshop. Sonic Arts Guest Artist Series, Brooklyn College, Brooklyn, NY, 4/1/2019
- “Controlling DC Motors and Solenoids for Kinetic Sound Art and Music.” Workshop. SPLICE II Festival, Bowling Green State University, Bowling Green, OH, 11/10/2018
- "Real-time streaming and closed loop co-adaptive interface to steer multi-layered nervous system's performance." 48th Annual Meeting of Society for Neuroscience, San Diego, CA, 11/3-7/2018
- “Controlling DC Motors and Solenoids for Kinetic Sound Art and Music.” Workshop. 2018 International Computer Music Conference, Art Factory, Daegu, Korea, 8/5/2018
- “Rhythmanalysis and Robots: Recent work by Steven Kemper.” Invited lecture. Tallinn University of Technology, Tallinn, Estonia, July 2018
- “Mechatronic Expression: Reconsidering Expressivity in Music for Robotic Instruments.” 15th International Conference on New Interfaces for Musical Expression (NIME), Virginia Tech, Blacksburg, VA, 6/4/2018
- “Why Should Our Bodies End at the Skin? Enacting Cyborg Performance.” Invited artist talk. The Ammerman Center for Arts and Technology 16th Biennial Symposium, Connecticut College, New London, CT, 2/15/2018
- “Controlling DC Motors and Solenoids for Kinetic Sound Art and Music.” Workshop. TIMARA, Oberlin College, Oberlin, OH, 10/27/2017
- “Remixing the City.” Workshop. Listening to the City: Engagement, Exploration + Intervention through Sound conference, MIT, Cambridge, MA, 5/25/2017
- “Mechatronic Expression: Embracing the Mechanical Nature of Robotic Instruments.” Stevens Institute of Technology, Hoboken, NJ, 3/22/2017
- “Re-Imagining Electroacoustic Performance: Music for Interactive Belly Dance with the RAKS system.” Wayne State University, Detroit, MI, 2/23/2017
- “Does the Sky Need a Composer or Musician?” Invited panel discussion, 2016 International Computer Music Conference, Utrecht, The Netherlands, 9/15/2016
- “Musical Robotics.” New Musical Instruments Hackathon, Spotify Headquarters, New York, NY, 6/11/2016
- “Sonic Vibrancy in the City.” Workshop. Locations and Dislocations: An Ecomusicological Conversation. Westminster Choir College of Rider University, Princeton, NJ, 4/8/2016
- “Re-Imagining Electroacoustic Performance: Music for Interactive Belly Dance with the RAKS system.” Bowling Green State University, Bowling Green, OH, 3/15/2016
- “Perspectives on Expressivity in Robotic Music.” Expressive Engines: Musical Technologies from Automata to Robots, Mason Gross School of the Arts, Rutgers University, 2/15/2016
- Composition/Music Technology Masterclass, University of Miami, Miami, FL, 12/4/2015
- “Bowls, Bots, Bikes, Boyle Heights: Computer Music to Community Activism.” TIMARA, Oberlin College, Oberlin, OH, 11/13/2015
- “Sensor Mappings and Interactivity Workshop with the electroAcoustic InteRactive Bed.” Workshop. TIMARA, Oberlin College, Oberlin, OH, 11/13/2015
- “Re-Imagining Electroacoustic Performance: Human-Computer Interaction in Music.” Stevens Institute of Technology, Hoboken, NJ, 10/27/2015
- “Kinesonic Composition as Choreographed Sound: Composing Gesture in Sensor-Based Music.” 2015 International Computer Music Conference, Denton, TX, 10/1/2015
- “Kinesonic Approaches to Mapping Movement and Music with the Remote electroAcoustic Kinesthetic Sensing (RAKS) System.” International Workshop on Movement and Computing, Vancouver, BC, 8/15/2015

- “Robotic Instruments & Human-Robot Interaction.” New Musical Instruments Hackathon, Spotify Headquarters, New York, NY, 7/24/2016
- “LA Listens: (re-)interpretations of sonic periodicity, rhythm, and neighborhood vibrancy in Los Angeles.” 2015 Sounds, Images and Data Conference, New York University, NY, NY, 7/24/2015
- “MARIE: Monochord-Aerophone Robotic Instrument Ensemble.” 15th International Conference on New Interfaces for Musical Expression (NIME), Louisiana State University, 6/3/2015
- “Making Music with Robotic Instruments.” Workshop. 15th International Conference on New Interfaces for Musical Expression (NIME), Louisiana State University, 5/31/2015
- “Electromagnetic Resonance Workshop.” Fair Use Building and Research (FUBAR) Labs, New Brunswick, NJ, 5/19/2015
- “Listening Through Sensory and Civic Data to the Streets of Los Angeles: LA Listens.” Inertia: A Conference on Sound, Media, and the Digital Humanities, UCLA, Los Angeles, CA, 5/30/2015
- “Electroacoustic Techniques in Electromechanical Music: Musical Robots as ‘Real’ Virtual Instruments.” Society for Electro-Acoustic Music in the United States 2015 National Conference. Virginia Tech, Blacksburg, VA, 3/26/2015
- “Expressive Machines Musical Instruments: A Lecture/Demo.” Friday Night Film Series, Colgate University, 2/26/2015
- “Expressive Machines Musical Instruments (EMMI).” Workshop and Performance, Syracuse University, 2/25/2015
- “Composing for Musical Robots: Aesthetics of electromechanical music.” Korean Electroacoustic Music Society 2014 Annual Conference, Seoul National University, Seoul, Korea, 10/9/2014
- “Movable Party: a bicycle-powered system for interactive musical performance.” Joint Meeting of ICMC-SMC, Athens, Greece, 9/17/2014
- “Expressive Machines Musical Instruments.” Concert/demonstration, *Touch Tomorrow*, Worcester Polytechnic Institute, Worcester, MA, 6/14/2014
- “Movable Parts: Media and Social Interactivity.” Art and Electronics for Designers, University of California Los Angeles, Los Angeles, CA, 12/4/2013
- “Re-imagining Electroacoustic Performance: Integrating Music and Physical Computing.” Lecture-demonstration, TIMARA, Oberlin College, Oberlin, OH, 9/27/2013
- “Musical Robotics: Computer-controlled, “real” virtual instruments.” Cal State University Monterey Bay, Monterey Bay, CA, 4/12/2013
- “Sensors, Arduino, and Interactive Media.” Workshop, Occidental College, Los Angeles, CA, 4/4/2013
- “Expressive Machines.” Lecture/performance, Machine Project, Los Angeles, CA, 3/12/2013
- “Studio Session: Arduino 101.” Presentation/workshop. Center for Digital Learning and Research, Occidental College. Los Angeles, CA, 3/28/2012
- “NOMADS— Network-Object Mobile-Agent Dynamic System.” Zerospace conference, Center for 21st Century Studies, University of Wisconsin, Milwaukee, WI, 2/18/2011
- “Expressive Machines Musical Instruments.” Poster presentation, representing University of Virginia at Graduate Student Research Forum, Library of Virginia, 2/3/2011
- “Expressive Machines Musical Instruments.” Lecture demonstration, Columbus State University, Columbus, GA, 12/2/2010
- “Expressive Machines Musical Instruments.” Lecture recital, Invited participant. Livewire festival, Expressive Machines Musical Instruments, UMBC, Baltimore, MD 10/30/2010
- Invited presenter (Expressive Machines Musical Instruments), represented the University of Virginia in Technology Row at FIRST Robotics regional competition, Virginia Commonwealth University's Stuart C. Siegel Center, Richmond, VA, 3/20-3/21/2009
- “A History of Electroacoustic Music: Immersion in a World of Sound.” The Bridge Progressive Arts Institute, Charlottesville, VA, 2/11/2009

“Technology and the Orchestra.” South-Central Graduate Music Consortium 5th Annual Conference, Duke University, Durham NC, 9/8/2007

"Diffusion or Delusion? Performance Practice Issues in Tape Music." South-Central Graduate Music Consortium 4th Annual Conference, University of Virginia, Charlottesville, VA, 9/9/2006

RESEARCH

Co-founder of Expressive Machines Musical Instruments (EMMI) research group focused on designing, building, and composing for computer controlled musical robots (www.expressivemachines.com). Responsibilities include co-designing and building robotic instruments, microcontroller programming, PCB design and construction, Max/MSP interface design, composition, 2007-Present.

Developer of the RAKS (Remote electroAcoustic Kinesthetic Sensing) system, a wireless sensor interface for belly dancer, created with composer/dancer Aurie Hsu, 2009-Present.

Co-founder of *LA Listens*, explores the meanings of vibrancy and questions the role and impact of motorized vehicles, pedestrians, conversations, helicopters, and street vendors in the multivalent soundscape of LA’s neighborhoods (www.lalistens.org), 2014-Present.

Developer of Movable Party (<http://movableparts.org/movable-party/>), a mobile, real-time interactive music system where audience-participants pedal stationary bicycles to generate power and perform interactive music. Developed sensor interface and software instruments, 2012-2013.

Software developer, University of Virginia’s Interactive Media Research Group (IMRG). Co-developed NOMADS: The Network-Object Mobile-Agent Dynamic System—a multi-platform tool for teaching in large-scale classroom and performance contexts (nomads.music.virginia.edu). The system supports real-time audience interaction in venues such as large lecture classes or concert halls. Responsibilities include programming (Objective-c, Java), software design, project management. 2007-2008, 2009-2013.

PROFESSIONAL SERVICE

Director of Communications (voting board member), Society for Electro-Acoustic Music in the United States (SEAMUS), 2015-present

Organizing Committee Member, 7th International Conference on Movement and Computing (MOCO) (Graduate Symposium Chair), 2019-2020

Managing Editor, *Journal SEAMUS*, Society for Electro-Acoustic Music in the United States (SEAMUS), 2018-2019

Article reviewer in the field of computer music, *Digital Creativity*, October 2019

Article reviewer in the field of computer music, *Arts*, August 2019

Article reviewer in the field of musical robotics, *Computer Music Journal*, August 2018

Article reviewer in the field of musical robotics, *Leonardo Music Journal*, August 2018

Reviewer, ASCAP/SEAMUS and Allen Strange Awards, 2016-2019

Concert Reviewer, 2018 New Interfaces for Musical Expression (NIME) conference, Virginia Tech, Blacksburg, VA, 2018

Adjudicator, NJMEA Student Music Tech Expo, New Brunswick, NJ, 2018-2019

Curator and concert reviewer, Robotic Music concert, 2017 New Interfaces for Musical Expression (NIME) conference, Copenhagen, Denmark, 2017

Paper reviewer, International Workshop On Movement & Computing (MOCO), 2016-2017

Paper Reviewer, 2016 International Festival and Conference on Sound in the Arts, Science, and Technology, Irish Sound, Science and Technology Association (ISSTA) 2016

Paper Chair, Paper Session 3B – New Instruments for Musical Expression I, 2015 International Computer Music Conference, Denton, TX, 9/27/2015

Scientific Paper and Selection Committees, 2015 International Computer Music Conference, 2015
Concert Reviewer, Society for Electro-Acoustic Music in the United States (SEAMUS), 2013-2014
Curator, Robotic music concert, 9th Sound and Music Computing Conference, Copenhagen, Denmark, 2012
Concert Reviewer, Electro-Acoustic music concert, 9th Sound and Music Computing Conference, Copenhagen, Denmark, 2012
Associate Technical Director, *Third Practice* Electroacoustic Music Festival, University of Richmond, 2007
President of *PRAECEPTA*, student organization devoted to the promotion of new music and student chapter of the Society of Composers Inc. (SCI), Bowling Green State University 2005-2006

UNIVERSITY SERVICE

Rutgers University

University, Committee on the Near- and Long-Term Impact of Instructional Technology, member, 2014-2016
Mason Gross School of the Arts, Filmmaking Search Committee, member, 2019-2020
Mason Gross School of the Arts, Big Ideas Committee, member, 2019
Mason Gross School of the Arts, Website Committee, member, 2016-2017
Mason Gross School of the Arts, Arts Online Advisory Committee, member, 2015-2017
Mason Gross School of the Arts, Filmmaking BFA Faculty Advisory Committee, member, 2013-2014
Mason Gross School of the Arts, Fordham Lab Faculty Liaison to Library (2013-present)
Music Department, Executive Committee, member, 2016, 2018-2020
Music Department, Faculty Compensation Program Peer Evaluation Committee, elected member, 2020
Music Department, Faculty Compensation Program Criteria Committee, chair, 2020
Music Department, SGS Music Faculty Bylaws Committee, member, 2017-2018
Music Department, Theory/Composition Search Committee, member, 2016
Music Department, BA Committee, member, 2015
Music Department, Undergraduate Composer's Colloquium, faculty advisor, 2015-present
Music Department, Curriculum Committee, member, 2013-2014
Music Department, Design/construction of Recording Studio in Mortensen Technology Suite, implementation of live streaming capabilities for Music Department Concerts, 2013-2014
Music Department, Design/construction of Fordham Lab, 2013

TECHNICAL SKILLS

Digital Audio/Music: Logic, Pro Tools, Cubase, Max/MSP, Supercollider, Pure Data
Digital Video: Final Cut Pro, Jitter
Graphical/Layout: Adobe Creative Suite (Photoshop, Acrobat, Illustrator, In Design)
Notation: Sibelius, Finale
CAD: Autodesk Fusion
Hardware: Arduino microcontrollers, wireless networks (Xbee), sensors, DC motor control, circuit design, PCB design, hardware hacking
Programming: Objective-C, C, C++, Java, Arduino, Git
Sound Reinforcement/Recording: Digital/analog mixers, effects processors, dynamics processors, amplification, stage and studio microphone techniques, professional theater sound engineer, 2003-2004

PROFESSIONAL MEMBERSHIPS

Broadcast Music, Inc. (BMI), Society for Electroacoustic Music in the United States (SEAMUS),
International Computer Music Association (ICMA)

COMPLETE LIST OF COMPOSITIONS AND PERFORMANCES

| Title (date) | Instrumentation | Performances |
|---|--|---|
| Stick-Slide, Strike (2019) | fixed media | Kaleidosonic Music Festival, Finney Chapel, Oberlin Conservatory, Oberlin, OH, 11/16/2019 |
| Manus Tremens (2019) | toy harp, LED-controlled vibration motors, live processing | <i>New Sounds Festival</i> , Western Michigan University, 3/20/2020 (*presented virtually due to COVID-19) Fata Morgana Festival, Eskenazi Fine Arts Center, IUPUI, Indianapolis, IN, 10/3/2019 |
| Lux Tremens (2018) | ensemble of vibration motors, flashlights, percussion, and custom-built electronics | Rutgers Interactive Music Ensemble, Richard H. Shindell Choral Hall, Rutgers University, 3/31/2019 Rutgers Interactive Music Ensemble, Mabel Smith Douglass Room, Rutgers University, 11/28/2018 |
| Why Should Our Bodies End at the Skin? (2018) | belly dancer, RAKS system, CADI: Configurable Automatic Drumming Instrument, live sound processing | 7th International Conference on Movement and Computing (MOCO), Mana Contemporary, Jersey City, NJ, 7/16/2020 (*presented virtually due to COVID-19) 2020 Society for Electroacoustic Music in the United States (SEAMUS) National Conference, University of Virginia, Charlottesville, VA, 3/13/2020 (*presented virtually due to COVID-19) <i>New Sounds Festival</i> , Western Michigan University, 3/20/2020 (*presented virtually due to COVID-19) Fata Morgana Festival, Eskenazi Fine Arts Center, IUPUI, Indianapolis, IN, 10/4/2019 13 th International Conference on Tangible, Embedded, and Embodied Interactions (TEI), Tempe Center for the Arts, Tempe, Arizona, 3/19/2019 (T)echs Machina Festival, The Birenbaum, Oberlin Conservatory, Oberlin, OH, 3/14/2019 2018 New Interfaces for Musical Expression (NIME) Response Concert, The Haven, Charlottesville, VA, 6/8/2018 2018 New Interfaces for Musical Expression (NIME) conference, Fife Theatre, Moss Arts Center, Virginia Tech, Blacksburg, VA, 6/6/2018 The Ammerman Center for Arts and Technology 16th Biennial Symposium, Evans Hall, Connecticut College, New London, CT, 2/17/2018 |
| Boyle Heights (Rhythmanalysis II) (2017) | marimba and fixed media electronics | NJDAC: Digital Audio Concert, Shindell Hall, Mason Gross School of the Arts, Rutgers University, 10/20/2019 Zeltsman Marimba Festival, Nicholas Music Center, Mason Gross School of the Arts, Rutgers University, 7/7/2017 |
| Mecxpression Study 1 (2017) | CADI: Configurable Automatic Drumming Instrument and live processing | 2018 Third Practice Electroacoustic Music Festival, University of Richmond, Richmond, VA 11/2-11/3/2018 2017 New Interfaces for Musical Expression (NIME) conference, Kommunal Kunst og Teknik, Copenhagen, Denmark, 5/17/2017 Talbertronics Festival, Clonick Hall, Oberlin College, 3/2/2017 An Evening of Computer Music: Steven Kemper & Aurie Hsu, Spread Art, Detroit, MI, 2/24/2017 Shaver Recital Hall, Wayne State University, Detroit, MI, 2/23/2017 |

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| In Illo Tempore (2012, rev. 2017) | sax, bsn, Monochord-Aerophone Robotic Instrument Ensemble | Art In Progress, Galleria Nazionale di Cosenza, Cosenza, Italy, 2/28/2013 Teatro Zuccone, Duluth, MN, 2/12/2012 The Lyric Center for the Arts, Virginia, MN, 2/11/2012 St. Cloud State University, St. Cloud, MN, 2/7/2012 University of Wisconsin at Whitewater, Whitewater, WI, 2/6/2012 Capital University, Columbus, OH, 2/3/2012 Kerrytown Concert House, Ann Arbor, MI, 2/2/2012 Miami University of Ohio, Oxford, OH, 2/1/2012 The Peabody Institute of the Johns Hopkins University, Cohen-Davison Theater, Baltimore, MD, 1/30/2012 The Southern Cafe & Music Hall, Charlottesville, VA, 1/29/2012 |
| Rhythmanalysis I: New Brunswick (2016) | str. qt. and computer | Legacy of Robert Moevs, Shindell Hall, Mason Gross School of the Arts, Rutgers University, 11/13/2016 |
| Water (2016) | electroacoustic music for video | Electric Café, Black Box Studio, Rutgers-Camden, Camden, NJ, 10/2/2017 Mottisfont, Romsey Film Festival, Romsey, UK, 9/24-10/1/2016 |
| Sleep Spindles (2016) Installation | CADI: Configurable Automatic Drumming Instrument | <i>New Sounds Festival</i> , Western Michigan University, 3/20/2020 (*presented virtually due to COVID-19) Fata Morgana Festival, Eskenazi Fine Arts Center, IUPUI, Indianapolis, IN, 10/3-5/2019 shut.eye, The Secret Theatre, Long Island City, NY, 4/1-4/3/2016 |
| Submerged from shut.eye (2016) | electroacoustic music for dance | 2016 Theatrical Bellydance Conference, DROM, NY, NY, 6/26/2016 shut.eye, The Secret Theatre, Long Island City, NY, 4/1-4/3/2016 |
| Pillowtalk from shut.eye (2016) | electroacoustic music for dance | shut.eye, The Secret Theatre, Long Island City, NY, 4/1-4/3/2016 |
| Lament (2015) | flute and computer | Electronic Music Midwest, Philip Lynch Theatre, Lewis University, Romeoville, IL, 10/12/2018 2018 International Computer Music Conference (ICMC). Daegu Concert House Chamber Hall, Daegu, Korea, 8/10/2018 NYU New Music Ensemble Soloists, Frederick Loewe Theatre, New York, NY, 2/17/2018 2017 Society for Electroacoustic Music in the United States (SEAMUS) National Conference, St. Cloud State University, St. Cloud, MN, 4/21/2017 Electroacoustic Barn Dance, HCC Digital Auditorium, Mary Washington University, 11/12/2016 TranScript Project, Shindell Hall, Mason Gross School of the Arts, Rutgers University, 9/25/2016 2016 New York City Electroacoustic Music Festival (NYCEMF), Abrons Art Center, New York, NY, 6/15/16 |
| Breath (2015) | electroacoustic music for video | Stroud Valley Arts, 2018 Stroud Film Festival, Stroud, UK, 3/18/2018 Electric Café, Black Box Studio, Rutgers-Camden, Camden, NJ, 10/31/2016 Seeing Sound, Commons Preview Cinema, Bath Spa University, Bath, UK, 4/9-4/10/2016 Political Animals: 21st Century Feminist Cinema, Whitechapel Gallery, London 3/5/2016 |

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| | | 2016 Society for Electroacoustic Music in the United States (SEAMUS) National Conference, Georgia Southern University, Statesboro, GA, 2/12/2016 Drawing Breath, St John on Bethnal Green, London, UK, 5/7-5/16/2015 Drawing Breath, The Manor, Hemingford Grey, Huntingdon, Cambridgeshire, UK, 3/27-3/28/2015 |
| Dreaming Breath (2014) | dancer, electroAcoustic InteRactive Bed, live processing | The Sleep Project, HANAC Harmony Innovative Senior Center, New York, NY, 6/30/2015 De Novo Concert, Mandragoras Art Space, New York, NY, 11/8-11/9/2014 |
| Submerged from Time-Space Capsule (2014) | Submerged System and live processing | The Street, 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/6/2014 2014 Chashama Gala, Anita Way, New York, NY, 6/9/2014 One Bryant Park Urban Garden Room, sponsored by Chashama. New York, NY, 5/6-5/11/2014 |
| Conjuring the Machine (2014) | electric guitar, TAPI: Transportable Automatic Percussion Instrument | 15th International Conference on New Interfaces for Musical Expression (NIME), Louisiana State University, 6/3/2015 Touch Tomorrow, Worcester Polytechnic Institute, Worcester, MA, 6/14/2014 Electric Café, Black Box Theater, Rutgers Camden, 2/4/2014 |
| Teka-Mori (2013) | electroacoustic music, belly dancer, RAKS system | <i>New Sounds Festival</i> , Western Michigan University, 3/20/2020 (*presented virtually due to COVID-19) Fata Morgana Festival, Eskenazi Fine Arts Center, IUPUI, Indianapolis, IN, 10/3/2019 Swoosh, Buzz, Zing: Electronic/Experimental Music from TIMARA at the Oberlin Conservatory, ShapeShifter Lab, New York, NY, 1/25/2019 SPLICE Festival II, Clazet Theatre, Bowling Green, OH 11/8/2018 2018 Third Practice Electroacoustic Music Festival, University of Richmond, Richmond, VA 11/3/2018 Alion Baltic Internatinal Music Festival, Glehn Castle, Tallinn, Estonia, 7/30/2018 2018 Society for Electroacoustic Music in the United States (SEAMUS) National Conference, University of Oregon, Eugene, OR, 3/29/2018 Interactive Arts Performance Series, Frederick Loewe Theatre, NYU Steinhardt, New York, NY, 10/16/2017 An Evening of Computer Music: Steven Kemper & Aurie Hsu, Spread Art, Detroit, MI, 2/24/2017 Shaver Recital Hall, Wayne State University, Detroit, MI, 2/23/2017 2016 International Computer Music Conference (ICMC), TivoliVredenburg Cloud Nine, Utrecht, The Netherlands, 9/16/2016 Oberlin Faculty Composers Concert, Oberlin College, Oberlin, OH, 2/5/2016 NJDAC, Shindell Hall, Mason Gross School of the Arts, Rutgers University, 10/25/2015 15th International Conference on New Interfaces for Musical Expression (NIME), Louisiana State University, 6/1/2015 Circuit Bridges, Gallery MC, New York, NY 2/26/2015 The Street, 12 Nights of Electroacoustic Music concert |

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| | | series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/6/2014 Sonic Currents, Worcester Polytechnic Institute, Worcester, MA 11/15/2014 Electric Café, Black Box Theater, Rutgers Camden, 2/4/2014 The Street, 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/7/2013 |
| Carcinoma (2013) | electroacoustic music for video | Elemental Dialogues, Creative Collisions: 10 Days Winchester, Courtyard Galley, The Guildhall, Winchester, UK, 10/27/2013 |
| Earth (2013) | electroacoustic music for video | Elemental Dialogues, Creative Collisions: 10 Days Winchester, Courtyard Galley, The Guildhall, Winchester, UK, 10/27/2013 |
| Lamentation from Houseguest (2013) | electroacoustic music for dance | Houseguest, Martha Graham Center of Contemporary Dance, New York, NY, 6/7-6/9/2013 Houseguest, Dance Conversations @ The Flea, The Flea Theater, New York, NY, 6/6/2013 |
| Movable Party (2013) | bicycle-powered interactive electroacoustic installation | DanceLAvia, Los Angeles, CA, 10/6/2013 NELA River Bike + Walk Spectacular, Los Angeles, CA, 4/27/2013 Ciclavia, Los Angeles, CA, 4/21/2013 Founder's Day, Occidental College, Los Angeles, CA, 4/20/2013 |
| Microbursts (2012) | Monochord-Aerophone Robotic Instrument Ensemble, Transportable Automatic Percussion Instrument | 9 th Sound and Music Computing conference, Den Frie Center of Contemporary Art, Copenhagen, Denmark, 7/14/2012 |
| Eleki-Robo (2011) | Poly-(tangent) Automatic (multi)-Monochord and (multi)-Mallet Automatic Drumming Instrument | Touch Tomorrow, Worcester Polytechnic Institute, Worcester, MA, 6/14/2014 The Street, 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/3/2011 |
| Anticenter Stream (2011) | amp. vc., computer | Digitalis, Old Cabell Hall, Charlottesville, VA, 5/3/2011 Indiscipline, The Haven, Charlottesville, VA, 4/21/2011 |
| 1, 2, and 3 for MARIE (2011) | sax, bn, Monochord-Aerophone Robotic Instrument Ensemble | Logos Foundation, Ghent, Belgium, 4/14/2011 Killian Hall, Massachusetts Institute of Technology, Cambridge, MA, 3/30/2011 |
| Street Meetings (2010, collaboration with EMMI) | Poly-(tangent) Automatic (multi)-Monochord and Configurable Automatic Drumming Instruments | Aqua Gallery, Art Basel Miami. Miami, FL, 12/3/2010 Technosonics XI—Mediated Nature, Live Arts, Charlottesville, VA, 11/19/2010 |
| shadows no. 6 (2010, collaboration with dancer/composer Aurie Hsu) | belly dancer, RAKS system, Poly-(tangent) Automatic (multi)-Monochord and Configurable Automatic Drumming Instruments | <i>New Sounds Festival</i> , Western Michigan University, 3/20/2020 (*presented virtually due to COVID-19) Fata Morgana Festival, Eskenazi Fine Arts Center, IUPUI, Indianapolis, IN, 10/5/2019 Talbertronics Festival, Clonick Hall, Oberlin College, 3/2/2017 An Evening of Computer Music: Steven Kemper & Aurie Hsu, Spread Art, Detroit, MI, 2/24/2017 Shaver Recital Hall, Wayne State University, Detroit, MI, 2/23/2017 Sonic Currents, Worcester Polytechnic Institute, Worcester, MA 11/15/2014 The Street, 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, |

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| | | Miami, FL, 12/3-12/4/2010 Pixilerations [v.7] part of FirstWorks Providence, Grant Recital Hall, Brown University, Providence, RI, 10/01/2010 |
| Mythical Spaces (2010) | perc., amplified vessels, electroacoustic music | SPLICE Institute, Dalton Center Recital Hall, Western Michigan University, Kalamazoo, MI, 6/30/2016 Society for Electro-Acoustic Music in the United States 2015 National Conference. Virginia Tech, Blacksburg, VA, 3/26/2015 Joint meeting of the International Computer Music Conference and Sound and Computing Music Conference, Onassis Cultural Center, Upper Theater, Athens, Greece, 9/15/2014 2014 New York City Electroacoustic Music Festival, Abrons Art Center, New York, NY, 6/5/2014 Electronic Music Midwest, Philip Lynch Theatre, Lewis University, Romeoville, IL, 10/13/2012 Davis Concert Hall, Fairbanks, AK, 4/2/2011 |
| Justice for Some (2010, evening length dance performance) Protest March Voices of Fear Rights and Respect Social Protest Wedding March 21 st Century Sit-In Agreements | Electroacoustic music for dance (composed for InFlux dance company) | Dancing in the Streets, presented by Somerville Arts Council, Somerville, MA, 6/28/2014 Whose Space? Our Space (installation), Rochester Contemporary Art Center, Rochester, NY, 8/3-9/23/2012 Boulder International Fringe Festival, Boulder, CO, 8/17-8/28/2011 St. Ambroise Montreal Fringe Festival, Club Espagnol, Montreal, Canada, 6/12, 6/16/2011 Rowland Hall, St. Mark's School, Salt Lake City, UT, 6/11/2011 Helms Theater, University of Virginia, Charlottesville, VA, 2/6/2011 Sugar Space, Salt Lake City, UT, 9/23-9/25/2010 |
| For Brad (2010) | Poly-(tangent) Automatic (multi)-Monochord and (multi)-Mallet Automatic Drumming Instrument | Expressive Engines, Nicholas Music Center, Mason Gross School of the Arts, Rutgers University 2/15/2016 Sonic Circuits Festival of Experimental Music, Pyramid Atlantic, Silver Spring, MD, 3/26/2011 The Street, 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/3-12/4/2010 |
| shadows no. 5 (2010, collaboration with dancer/composer Aurie Hsu) | electroacoustic music, belly dancer, RAKS system | <i>New Sounds Festival</i> , Western Michigan University, 3/20/2020 (*presented virtually due to COVID-19) Fata Morgana Festival, Eskenazi Fine Arts Center, IUPUI, Indianapolis, IN, 10/3/2019 An Evening of Computer Music: Steven Kemper & Aurie Hsu, Spread Art, Detroit, MI, 2/24/2017 Shaver Recital Hall, Wayne State University, Detroit, MI, 2/23/2017 Beats, bellies & bots: A concert of interactive belly dance and electronic music, Cal State University Monterey Bay, 4/12/2013 Semiotics Society of America Annual Meeting: Worldviews, Pittsburgh, PA, 10/28/2011 Sonic Circuits Festival of Experimental Music, Pyramid Atlantic, Silver Spring, MD, 3/26/2011 Zerospace Conference, Center for 21 st Century Studies, PSOA Music Recital Hall, UWM, Milwaukee, WI, 2/18/2011 Third Practice Electroacoustic Music Festival, Camp Concert Hall, University of Richmond, Richmond, VA, 11/6/2010 |

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| | | International Computer Music Conference (ICMC), Tabler Theater, Stony Brook University, Stony Brook, NY, 6/4/2010 |
| Licht Metaal (2010) | M&M Robot Orchestra | Logos Foundation, Ghent, Belgium, 4/14/2011 Logos Foundation, Ghent, Belgium, 5/20/2010 |
| Visravati (2010) | electroacoustic music for dance | University of Virginia 2010 Spring Dance Concert, Helms Theater, Charlottesville, VA, 4/15-4/17/2010 |
| Drum Circle (2010, collaboration with EMMI) | (multi)-Mallet Automatic Drumming Instrument and Configurable Automatic Drumming Instruments | 2017 New Interfaces for Musical Expression (NIME) conference, Kommunal Kunst og Teknik, Copenhagen, Denmark, 5/17/2017 Musical Mayhem, O Cinema, Miami, FL, 12/2/2011 The Bridge Progressive Arts Institute, Charlottesville, VA, 3/28/2010 |
| shadows no. 4 (2010, collaboration with dancer/composer Aurie Hsu) | electroacoustic music, belly dancer, RAKS system | Association for Computing Machinery (ACM) Special Interest Group on Computer Human Interaction (SIGCHI) 2010 Media Showcase, Atlanta, GA, 4/15/2010 Society for Electro-Acoustic Music in the United States (SEAMUS) 2010 National Conference, Ruth Gant Recital Hall, St. Cloud State University, St. Cloud MN, 4/8/2010 |
| The Seven Stars (2010) | amp. prepared pf. | Acoustica 21: Inside-Out: The Prepared and Extended Piano featuring Aurie Hsu, Miami, FL, 5/4/2013 |
| PAM Solo Take One (2009) | Poly-(tangent) Automatic (multi)-Monochord | Sonic Circuits Festival of Experimental Music, Pyramid Atlantic, Silver Spring, MD, 3/26/2011 The Street, 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/3-12/4/2010 The Bridge Progressive Arts Institute, Charlottesville, VA, 3/28/2010 |
| Study no. 3 for PAM and MAD1 (2009, collaboration with EMMI) | Poly-(tangent) Automatic (multi)-Monochord and (multi)- Mallet Automatic Drumming Instrument | Sonic Circuits Festival of Experimental Music, Pyramid Atlantic, Silver Spring, MD, 3/26/2011 The Street, 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/3-12/4/2010 The Bridge Progressive Arts Institute, Charlottesville, VA, 3/28/2010 Technosonics X-Building: 2009 Virginia Center for Computer Music tour: The Mead Theatre, Washington, DC, 11/15/2009 Muse Workspace, Richmond, VA, 11/14/2009 Live Arts, Charlottesville, VA, 11/13/2009 |
| Study no. 1 for PAM and MAD1 (2008, collaboration with EMMI) | Poly-(tangent) Automatic (multi)-Monochord and (multi)- Mallet Automatic Drumming Instrument | International Computer Music Conference (ICMC) Lion D'Or, Montreal, QC, 8/17/2009 New Interfaces for Musical Expression Conference (NIME), Carnegie Mellon University, Pittsburgh, PA, 6/4/2009 Technosonics 2008 Virginia Center for Computer Music 20 th anniversary tour: Live Arts, Charlottesville, VA, 11/14/2008 Muse Workspace, Richmond, VA, 11/6/2008 Peter Norton Symphony Space Leonard Nimoy Thalia, New York, NY, 10/31/2008 Delaware Center for Contemporary Arts, Wilmington, DE, 10/30/2008 University of Delaware, Newark, DE, 10/29/2008 |

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| At the Crossing of Five Paths (2008) | fl., computer | Mid-Atlantic Flute Fair, Reston, VA, 2/21/2010 Technosonics X—Building: 2009 Virginia Center for Computer Music tour: Muse Workspace, Richmond, VA, 11/14/2009 Live Arts, Charlottesville, VA, 11/13/2009 Pixilerations [v.5] part of FirstWorks Providence, University of Rhode Island Shepard Building Auditorium, Providence, RI, 10/11/2008 |
| Mystification (2007) | fl., cl., pf., va., vc., computer | Helix! new music ensemble, Le Poisson Rouge, New York, NY, 4/12/2015 Da Capo Chamber Players, Old Cabell Hall, Charlottesville, VA, 1/17/2008 |
| Neoga (2005) | electroacoustic music and video | Third Practice Electroacoustic Music Festival, Camp Concert Hall, University of Richmond, Richmond, VA, 10/20/2007 Seoul International Computer Music Festival, Seoul, Korea, 11/23/2006 15th Annual Florida Electroacoustic Music Festival, University of Florida Center for the Performing Arts Black Box Theater, Gainesville, FL, 4/6/2006 Most Significant Bytes, Presser Recital Hall, Mount Union College, Alliance, OH, 2005 Imagine 2 festival, University of Memphis, Jay Etkin Gallery, Memphis, TN, 2005 |