

Steven T. Kemper

McIntire Department of Music
University of Virginia
112 Old Cabell Hall
Charlottesville, VA 22904
Phone: 773-677-0232
stk8m@virginia.edu
www.stevenkemper.com

EDUCATION

Ph.D., Music Composition and Computer Technologies, University of Virginia,
Expected May 2012
Dissertation: *Composing Myth: 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

Adjunct Faculty, University of Virginia

MUSI 3370: Songwriting (Self-designed course, Spring 2011)

Instructor, University of Virginia

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

Teaching Assistant, University of Virginia

MUSI 3330: Intermediate Musicianship, Aural Skills (Fall 2011, Spring 2007, Fall 2006)
MUSI 2350: Technosonics, Introduction to Digital Music (Spring 2010, Spring 2008)
MUSI 337: Introduction to Songwriting (Spring 2009)
MUSI 339: Introduction to Music and Computers (Fall 2008)
MUSI 104: Exploring the Orchestra (Fall 2007)

Teaching Assistant, Bowling Green State University

Music Technology III/IV, Advanced Music Technology (Spring 2006, Fall 2005)

NATIONAL/INTERNATIONAL AWARDS AND COMMISSIONS

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
River Anna (flute quartet) commissioned by Wayla Chambo for the Youth Orchestras of
Charlottesville/Albemarle Flute Ensemble, 2009
Guthman Musical Instrument Competition, invited participant: (multi)-Mallet Automatic
Drumming Instrument (MADI), 2009
Run From Fear (fl., cl., pf., vc., db.) commissioned by Bowdoin College to celebrate the opening
of the Studzinski Recital Hall, 2007

UNIVERSITY AWARDS

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

SELECTED PERFORMANCES

I, 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

Justice for Some (electroacoustic music and dance). Performed by InFlux dance company, St. Ambroise Montreal Fringe Festival, Club Espagnol, Montreal, Canada, 6/12, 6/16/2011

Mythical Spaces (percussion, amplified vessels, and electroacoustic music). Performed by Shawn Savegeau, master's recital. Davis Concert Hall, Fairbanks, AK, 4/2/2011

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

Licht Metaal (M&M Robot Orchestra). Logos Foundation, Ghent, Belgium, 5/20/2010

At the Crossing of Five Paths (flute and computer). Selected for performance by members of Brown University's MEME (Multimedia & Electronic Music Experiments) program. Pixilerations [v.5] part of FirstWorks Providence, University of Rhode Island Shepard Building Auditorium, Providence, RI, 10/11/2008

Run From Fear (flute, clarinet, piano, cello, bass). Selected for performance by members of the American Composers Alliance. American Composers Alliance Festival of American Music 2008, Leonard Nimoy Thalia at Peter Norton Symphony Space, New York, NY, 6/5/2008

Neoga (electroacoustic music and video). Selected for performance by Seoul International Computer Music Festival selection committee. Seoul International Computer Music Festival, Seoul, Korea, 11/23/2006

PUBLICATIONS AND PRESENTATIONS

Matthew Burner, Steven Kemper, and David Topper, "Network Socio-Synthesis and Emergence in NOMADS." in *Organized Sound*. Forthcoming

"Drum Circle." *Agents Against Agency*. DVD. EcoSono

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)

"Review of the Threshold festival." in *Journal SEAMUS* 18, no. 2 (2005): 45-46

"Expressive Machines Musical Instruments" Hotpot Lab #15, Studio for Electro-Instrumental Music (STEIM), Amsterdam, 4/12/2011

"NOMADS— Network-Operational Mobile Applied Digital 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

"*Music and Mind: the history of interactivity in electroacoustic music*," Monticello High School, Charlottesville, VA, 4/1/2010

“*Music and Mind*: presentation on the history of musical robotics,” Monticello High School, Charlottesville, VA, 4/2/2009
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
Lecture/Demonstration by Expressive Machines Musical Instruments: Danville Science Center, Danville, VA, 4/17/2008
“*Music and Mind*: the history of sampling in electroacoustic music,” Monticello High School, Charlottesville, VA, 4/3/2008
“Technology and the Orchestra.” Presented at the South-Central Graduate Music Consortium 5th Annual Conference, Duke University, Durham NC, 9/8/2007
“Diffusion or Delusion? Performance Practice Issues in Tape Music.” Presented at the South-Central Graduate Music Consortium 4th Annual Conference, University of Virginia, Charlottesville, VA, 9/9/2006

RESEARCH INTERESTS

Musical Robotics, Interactivity in Computer Music, Networked Music, Music and Myth, Music for Dance

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, Max interface design, composition, 2007-Present.
Software developer/member of University of Virginia’s Interactive Media Research Group (IMRG). Co-developed NOMADS: The Network-Operational Mobile Applied Digital System—a software-based tool for artistic creation and teaching in large-scale classroom and performance contexts. The system supports live, interactive performance in venues such as large lecture classes or concert halls. Member of the production group for Matthew Burtner’s opera *Auksalaq*. Also assisted in the creation of MICetro hardware/software system with Professor Burtner culminating in a networked laptop performance of 200+ computers, 2007-2008, 2009-Present.
Developer of the RAKS (Remote electroAcoustic Kinesthetic Sensing) system, a wireless sensor interface for belly dancer, created in association with composer/dancer Aurie Hsu. Modular system is based on the Arduino microcontroller and Xbee implementation of the ZigBee network protocol, 2009-Present.
Associate Director of the University of Virginia’s Mobile Interactive Computer Ensemble (MICE) laptop orchestra. Assisted in the composition, direction, and production of the *Digitalis Under the Stars* concert featuring 200+ human/computer orchestra, robotic light sculpture, interactive network software and emergent sound synthesis applications, 2008, 2010.

TRAVEL GRANTS

University of Virginia

Robert J. Huskey Travel Fellowship, 2011
Robert J. Huskey Travel Fellowship, 2009
Society of Fellows Travel Award, 2009
Music Department Travel Grant, 2008

Robert J. Huskey Travel Fellowship, 2007

Bowling Green State University

Pro Musica Travel Grant, 2005

MidAmerican Center for Contemporary Music Travel Grant, 2005

Graduate Committee, College of Musical Arts Travel Grant, 2005

SERVICE POSITIONS

Organized Relâche ensemble residency. Wrote successful grant application for \$10,000 UVA Arts Council Annual Fund for the Arts grant, organized residency activities, 2008-2009.

Treasurer, *Noise In the System*, graduate student new music collective, 2006-2010.

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.

Member of MidAmerican Center for Contemporary Music advisory board 2005-2006.

Member of Bowling Green State University Arts Collaboration Organization 2005-2006.

SUMMER PROGRAMS AND RESIDENCIES

Studio for Electro-Instrumental Music (STEIM) residency, Amsterdam, 4/10-4/13/2011.

Orford Sound Art Workshop, Centre d'Arts Orford, Orford, Québec. Workshop with Yves Daoust, Alain Savouret, Paul Koonce, 2007.

Summer Composers Seminar, New York University, New York, NY. Seminar with Dinu Ghezzo, Ron Mazurek, George Crumb, Leo Kraft, 2002.

TECHNICAL SKILLS

Digital Audio/Music: Logic, Pro Tools, Digital Performer, Max/MSP, Supercollider, RTcmix, JSyn, Peak, SoundHack, GarageBand

Digital Video: Final Cut Pro, Jitter, Maya, DVD Studio Pro

Graphical/Layout: Adobe Creative Suite (Photoshop, Acrobat, Illustrator, In Design, Dreamweaver)

Notation: Sibelius, Finale

Hardware: Arduino microcontrollers, wireless networks (Xbee), sensors, DC motor control, PCB assembly, hardware hacking

Programming: Java, Arduino, C, C++, Unix, HTML, JavaScript

Sound Reinforcement/Recording: Digital/analog mixers, effects processors, dynamics processors, amplification, stage and studio microphone techniques, professional theater sound engineer, 2003-2004

LANGUAGES

Native language, English

Intermediate Reading and writing skills in French

PROFESSIONAL MEMBERSHIPS

Broadcast Music, Inc. (BMI), Society for Electroacoustic Music in the United States (SEAMUS), Society of Composers, Inc. (SCI), American Composers Forum (ACF), American Music Center (AMC), International Computer Music Association (ICMA)

OTHER MUSICAL ACTIVITY

Guitarist for *Dzian!* Taiwanese Nakashi-style surf rock band, 2010-Present.

Laptop performer, *Autopoetics II* by Ted Coffey (networked laptop quintet). Performed at SEAMUS 2010, St. Cloud State University, Saint Cloud, MN, 4/8/2010
 Conductor, *River Anna* by Steven Kemper, 5/3/2009
 Conductor, *Light at the End of the Tunnel* by Fred Frith. Ensemble coached by the composer, 2/5/2008.
 Guitarist for UVA's New Music Guitar Ensemble, 2007-2008.
 Conductor, world premiere of *Dark Hollow* by J. Corey Knoll, 2/9/2006.

COMPLETE LIST OF WORKS AND PERFORMANCES

Title (date)	Instrumentation	Performances
<i>Anticenter Stream</i> (2011)	amp. vc., computer	<i>Digitalis</i> , Old Cabell Hall, Charlottesville, VA, 5/3/2011 <i>Indiscipline</i> , The Haven, Charlottesville, VA, 4/21/2011
<i>1, 2, and 3 for MARIE</i> (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
<i>River Anna</i> (2011)	chamber orch.	Old Cabell Hall, University of Virginia, Charlottesville, VA, 4/8/2011
<i>Street Meetings</i> (2010, collaboration with EMMI)	Poly-(tangent) Automatic (multi)-Monochord and Configurable Automatic Drumming Instruments	Aqua Gallery, Art Basel Miami. Miami, FL, 12/3/2010 <i>Technosonics XI—Mediated Nature</i> , Live Arts, Charlottesville, VA, 11/19/2010
<i>shadows no. 6</i> (2010, collaboration with dancer/composer Aurie Hsu)	belly dancer, RAKS system, Poly-(tangent) Automatic (multi)-Monochord and Configurable Automatic Drumming Instruments	<i>The Street</i> , 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/3-12/4/2010 <i>Pixilerations</i> [v.7] part of FirstWorks Providence, Grant Recital Hall, Brown University, Providence, RI, 10/01/2010
<i>Mythical Spaces</i> (2010)	perc., amplified vessels, electroacoustic music	Davis Concert Hall, Fairbanks, AK, 4/2/2011
<i>Justice for Some</i> (2010, evening length dance performance) <i>Protest March</i> <i>Voices of Fear</i> <i>Rights and Respect</i> <i>Social Protest</i> <i>Wedding March</i> <i>21st Century Sit-In Agreements</i>	electroacoustic music and dance (composed for InFlux dance company)	Boulder International Fringe Festival, Boulder, CO, 8/17-8/28/2011 St. Ambroise Montreal Fringe Festival, Club Espagnol, Montreal, Canada, 6/12/2011, 6/16/2011 Rowland Hall, St. Mark's School, Salt Lake City, UT, 6/11/2011 Helms Theater, University of Virginia, Charlottesville, VA, 2/6/2012 Sugar Space, Salt Lake City, UT, 9/23-9/25/2010
<i>For Brad</i> (2010)	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 <i>The Street</i> , 12 Nights of Electroacoustic Music concert series, Harold Golen Gallery, Art Basel Miami, Miami, FL, 12/3-12/4/2010
<i>shadows no. 5</i> (2010, collaboration with dancer/composer Aurie Hsu)	electroacoustic music, belly dancer, RAKS system	Semiotic Society of America Annual Meeting, Pittsburgh, PA, 10/29/2011 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 International Computer Music Conference (ICMC),

		Tabler Theater, Stony Brook University, Stony Brook, NY, 6/4/2010
<i>Licht Metaal</i> (2010)	M&M Robot Orchestra	Logos Foundation, Ghent, Belgium, 4/14/2011 Logos Foundation, Ghent, Belgium, 5/20/2010
<i>Visravati</i> (2010)	electroacoustic music and dance	University of Virginia 2010 Spring Dance Concert, Helms Theater, Charlottesville, VA, 4/15-4/17/2010
<i>Drum Circle</i> (2010, collaboration with EMMI)	(multi)-Mallet Automatic Drumming Instrument and Configurable Automatic Drumming Instruments	The Bridge Progressive Arts Institute, Charlottesville, VA, 3/28/2010
<i>shadows no. 4</i> (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
<i>The Seven Stars</i> (2010)	amp. prepared pf.	
<i>PAM Solo Take One</i> (2009)	Poly-(tangent) Automatic (multi)-Monochord	Sonic Circuits Festival of Experimental Music, Pyramid Atlantic, Silver Spring, MD, 3/26/2011 <i>The Street</i> , 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 McGuffey Arts Center, Charlottesville, VA,
<i>Study no. 3 for PAM and MADI</i> (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 <i>The Street</i> , 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 <i>X-Building</i> : 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 International Computer Music Conference (ICMC) Lion D'Or, Montreal, QC, 8/17/2009 New Interfaces for Musical Expression (NIME) at Carnegie Mellon University, Pittsburgh, PA, 6/4/2009
<i>River Anna</i> (2009)	fl. quartet	Rotunda, University of Virginia, Charlottesville, VA, 5/15/2011 McGuffey Arts Center, Charlottesville, VA, 5/3/2009 Westminster Canterbury, Cultural Arts Center, Charlottesville, VA, 4/29/2009
<i>Night of Sevens</i> (2008)	fl., ob., cl., bn., va., db., pf., perc.	Relâche ensemble, Old Cabell Hall, Charlottesville, VA, 1/27/2009
<i>Study no. 1 for PAM and MADI</i> (2008, collaboration with EMMI)	Poly-(tangent) Automatic (multi)-Monochord and (multi)-Mallet Automatic Drumming Instrument	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
<i>At the Crossing of Five Paths</i> (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 <i>Pixilerations</i> [v.5] part of FirstWorks Providence, University of Rhode Island Shepard Building Auditorium, Providence, RI, 10/11/2008
<i>Mystification</i> (2007)	fl., cl., pf., va., vc., computer	Da Capo Chamber Players, Old Cabell Hall, Charlottesville, VA, 1/17/2008
<i>Run from Fear</i> (2007)	fl., cl., pf., vc., db., (revised version)	American Composers Alliance Festival of American Music 2008, Leonard Nimoy Thalia at Peter Norton Symphony Space, New York, NY, 6/5/2008 Boston Modern Orchestra Project, commissioned by Bowdoin College for the opening of the Studzinski Recital Hall, Kanbar Auditorium, Bowdoin College, Brunswick, ME, 11/10/2007
<i>Run from Fear</i> (2007)	fl., cl., pf., elec. gtr., db.	Now Ensemble, Garrett Hall, Charlottesville, VA, 3/30/2007
<i>Straight, Curving, Colorful: Three Architects</i> (2006)	cl., vc., computer	
<i>Call to Prayer</i> (2005)	orch.	Charlottesville & University Symphony Orchestra reading session, Old Cabell Hall, Charlottesville, VA, 4/25/2007
<i>Neoga</i> (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
<i>Poème Ligetique</i> (2005)	5.1 channel electroacoustic music	BGSU New Music Ensemble, Bowling Green State University, Bryan Recital Hall, Bowling Green, OH, 2005
<i>North of Boston</i> (2005)	sop., gtr./vc.	
<i>Gliding Through a Misty Phosphorescence</i> (2004)	sax. qt.	Grupo Sax-Ensemble, Madrid, Spain, Auditorio Conde Duque, Madrid, Spain, 10/14/2006 Selected and premiered by the Grupo Sax-Ensemble through their 1st Rostrum for Young Composers, Circulo de Bellas Artes, Sala Valle Inclan, Madrid, Spain. Performance broadcast on Radio Clásica (Radio Nacional de España), 10/3/2005
<i>Monophyletic</i> (2004)	pf.	
<i>Grow</i> (2003)	electroacoustic music for video installation	Presented at Ellen Kenney's solo art show, Visual Arts

		Center, Bowdoin College, Brunswick, ME, 2003
Incidental music for <i>In the Heart of America</i> , play by Naomi Wallace (2003)	electroacoustic music	Designed sound and composed incidental music. Wish Theater, Bowdoin College, Brunswick, ME, 2003
Piano Quintet (2003)	pf., str. qt.	Presented as part of an honors project in music composition. Gibson Hall, Bowdoin College, Brunswick, ME, 2003
<i>Dinner Conversation</i> (2002)	electroacoustic music	Presented at mural opening, Visual Arts Center, Bowdoin College, Brunswick, ME, 2002
Septet (2002)	fl., ob., cl., str. qt.	Performed at the Fredrick Lowe Theater, New York University, New York, NY, 2002
<i>12 MIDI Experiments</i> (2002)	electroacoustic music	Presented as the culmination of an independent study in MIDI composition, Gibson Hall, Bowdoin College, Brunswick, ME, 2002
<i>Reception Music</i> (2001)	4-channel electroacoustic music, fl., vn.	Presented as the culmination of an independent study in electronic music. Drake Lobby, Memorial Hall, Bowdoin College, Brunswick, ME Presented as music to accompany reception following fall dance show, 2001
<i>4 Modes of Love</i> (2001)	Hp., elec. gr, pf., harmonica, tpt., tuba, perc., db.	Performed at Gibson Hall, Bowdoin College, Brunswick, ME, 2001