

**Nathan Wolek, Ph.D.**  
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## EDUCATION

**Doctor of Philosophy in Music Technology**, Northwestern University, 1999 - 2005  
Concentrations: Granular Synthesis, Performance Systems, Audio Installations  
Dissertation: *A Simplified Granular Processing Interface Based on Perceptual Research*

**Bachelor of Music in Digital Arts**, Stetson University, DeLand, FL, 1995 - 1999  
Concentrations: Music Technology, Web Application Development

## RESEARCH SKILLS

Real-time and interactive audio programming with Cycling74's Max/MSP  
Multi-track hard disk recording and editing using ProTools  
Audio and MIDI sequencing with Logic Pro and Digital Performer  
Live sound engineering and studio recording experience  
Java, C and C++ programming  
Analysis and history of electronic and American popular music

## TEACHING EXPERIENCE

**Assistant Professor**, Fall 2005 – present  
**Program Director**, Fall 2008 – present  
School of Music and Digital Arts Program, Stetson University

**Assistant Professor**, Fall 2004 – Spring 2005  
Music Department, University of Hawaii at Manoa

**Visiting Lecturer**, Fall 2003 – Spring 2004  
School of Music and Digital Arts Program, Stetson University

**Visiting Lecturer**, Fall 2002 – Spring 2003  
Audio Arts & Acoustics Department, Columbia College Chicago

**Teaching Assistant**, Winter 2002  
School of Music, Northwestern University

**Graduate Instructor**, Fall 2001 & Fall 2000  
School of Music, Northwestern University

## RELATED RESEARCH AND PROFESSIONAL EXPERIENCE

**Music Director** for *Mobile Performance Group*. January 2004-present. Oversee creative decisions, technical developments and performance preparations for music and audio components of multimedia performances; coordinate overall vision with Creative Director (Matt Roberts); logistical planning for travel with student artists.

**Project Manager** for *Ringtone Project*. October 2008-May 2009. Lead a team of three student professionals in the creation of over 100 ringtones and sound effects for a Fortune 500 company; negotiated contract terms; composed and produced over 20 ringtones personally.

**Co-Developer** for *Hipno*. December 2003-May 2009. Designed and programmed plugins for new product released by Cycling'74, makers of Max/MSP & Pluggo; worked with other developers at Electrotap to test product and write documentation prior to release.

**Audio Technician** at *First Presbyterian Church of Evanston*. February 2001-June 2003. Live and recording audio engineering for weekly services and special events; work with guest artists including the Jubilate Children's Choir, North Park University Gospel Choir, John Easterlin and Roberta Thomas; Inventory development and management; Liaison for contracted audio enhancements.

**Sound Designer** for *Dancing with the Devil at the Crossroads* by Renée Alexander. December 2001-February 2002. Created and managed audio cues in consultation with director; Developed custom playback and processing software using Max/MSP.

**Recording Engineer** for *Songbook 2* by The Primarily Arts Network. December 2000-January 2001. Recording session preparation; Management of multi-track hard disk recording; Microphone selection and placement.

**Project Consultant** for *Fool's Paradise* by Paul Hertz. November 2000-February 2001. Design of custom audio software solutions using Max/MSP in consultation with the artist.

**Project Consultant** for *Thomas and Beulah* by Amnon Wolman. January 2000-January 2001. Implementation of custom audio and MIDI performance software using Max/MSP in consultation with the composer; Monitoring performance system during rehearsals and world premiere at the Museum of Contemporary Art (Chicago, IL).

## SELECTED PERFORMANCES

*Collective Sites (UCF)*. Mobile Performance Group. **Music director, programmer, performer**. 26 February 2009. University of Central Florida's Colbourn Hall (Orlando, FL). Part of the College Music Society (CMS) Southern Chapter Regional Conference.

*Orbital Studies*. Paulo Chagas, Caio Pagano and Nathan Wolek. **Electronics co-composer and performer**. 13-14 September 2008. Espaço Cultural CPFL (Campinas, Brazil) and SESC Vila Mariana (Sao Paulo, Brazil). Part of the 43rd Festival Música Nova.

*Collective Sites (San Diego)*. Mobile Performance Group. **Music director, programmer, performer**. 5-6 October 2007. San Diego State University's Smith Recital Hall (San Diego, CA). Part of the New West Electronic Arts & Music Organization, an international festival of electro-acoustic music.

*Selections from ISEA and Conflux*. Mobile Performance Group. **Music director, programmer, performer**. 9 November 2006. Columns Hotel (New Orleans, LA). Part of the International Computer Music Conference 2006.

*Collective Sites (Brooklyn)*. Mobile Performance Group. **Music director, programmer, performer**. 16 September 2006. Barcade (Brooklyn, NY). Part of the Conflux Festival.

*Parking Spaces (San Jose)*. Mobile Performance Group. **Music director, programmer, performer**. 10-12 August 2006. Various downtown locations (San Jose, CA). Part of the 13<sup>th</sup> annual International Symposium of Electronic Arts (ISEA).

*Parking Spaces (Gainesville)*. Mobile Performance Group. **Music director, programmer, performer**. 6 April 2006. University of Florida Center for the Performing Arts (Gainesville, FL). Part of the 15th annual Florida Electroacoustic Music Festival.

*Events*. Matt Roberts and Nathan Wolek. **Composer, performer**. 23 February 2006. Nomad World Pub (Minneapolis, MN). Part of the Spark Festival of Electronic Music and Art.

*Parking Spaces (Tampa)*. Mobile Performance Group. **Music director, programmer, performer.** 21 October 2005. Tampa Union Station (Tampa, FL). Part of Post Industrial Carnival.

*Events*. Matt Roberts and Nathan Wolek. **Composer, performer.** 24 October 2004. Roundhouse Community Centre (Vancouver, BC). Part of the New Forms Festival 2004, an International Festival of Media Arts.

*Park 'n Ride*. Mobile Performance Group. **Audio team leader, programmer.** 15 April 2004. Pine Street (Orlando, FL). Part of the Third Thursday Art Happenings.

*Events*. Matt Roberts and Nathan Wolek. **Composer, performer.** 19 & 20 March 2004. HCC Ybor Performing Arts Theater (Tampa, FL). Part of the Ybor City Festival of the Moving Image.

*Park 'n Ride*. Mobile Performance Group. **Audio team leader, programmer, performer.** 18 March 2004. Centro Ybor Plaza in Ybor City (Tampa, FL). Part of the Ybor City Festival of the Moving Image.

*need not*. NMCP with special guest Matt Roberts. **Director, programmer, performer.** 4 December 2003. Advanced Digital Music Lab at Stetson University (DeLand, FL). Part of the FMAN digital arts showcase.

*I'll have an Electric Mahabarata, please*. Anthony Cornicello. **Live electronics assistant.** 8 November 2003. Elizabeth Hall Auditorium at Stetson University (DeLand, FL). Part of the Society of Composers, Inc. (SCI) 2003 Region IV Conference.

*must contain*. Nathan Wolek. **Composer, performer.** 6 November 2003. Elizabeth Hall Auditorium at Stetson University (DeLand, FL). Part of the Society of Composers, Inc. (SCI) 2003 Region IV Conference.

*Contrast Settings & Real Time Psycho Active Time*. Lucid Dream Ensemble. **Member, programmer, performer.** 11 May 2003. Block Museum at Northwestern University (Evanston, IL). Part of the New Music Marathon.

*He Who Gets Slapped*. Lucid Dream Ensemble. **Member, programmer, performer.** 26 April 2003. Block Museum at Northwestern University (Evanston, IL). Part of the Block Cinema's Silent Film Series.

*distract/change*. Lucid Dream Ensemble. **Member, programmer, performer.** 27 March 2003. Museum of Contemporary Arts (Chicago, IL). Part of the version 03 festival.

*Real Time Psycho Active Time*. Lucid Dream Ensemble. **Member, programmer, performer.** 16 March 2003. Digital Arts Ranch at Arizona State University (Tempe, AZ). Part of the SEAMUS 2003 national conference.

S. Christophe Havel. **Live electronics.** 4 June 2002. Regenstein Recital Hall at Northwestern University (Evanston, IL).

*Pleasant Amnesia*. Lucid Dream Ensemble. **Member, programmer, performer.** 25 May 2002. Block Museum at Northwestern University (Evanston, IL). Part of the Northwestern University Center for Art and Technology's second annual symposium.

*Dancing with the Devil at the Crossroads*. Renee Alexander. **Sound diffusion and live electronics.** 1-3 February 2002. Wallis Theater at Northwestern University (Evanston, IL).

*Thomas and Beulah*. Amnon Wolman and Rita Dove. **Live sound engineer and live electronics assistant.** 18-21 January 2001. Museum of Contemporary Arts (Chicago, IL). Performance recording released by Innova Recordings.

## PUBLICATIONS

*CD Review: Erdem Helvacioğlu – Altered Realities.* 2008. Array: the Journal of the ICMA, 2007-2008 double issue.

*CD Review: Bob Gluck – Electric Brew.* 2008. Array: the Journal of the ICMA, 2007-2008 double issue.

*Concert Review: Day 3 of SCI Region IV Conference.* 2004. SCI Newsletter, Issue XXXIV: 1.

*Granular Toolkit v1.0 for Cycling74's Max/MSP.* 2001. Journal SEAMUS, Volume XVI, No. 2, pp 34-46.

## CONFERENCE PRESENTATIONS

*Laptop = Instrument?* 2010. Invited presentation for the Florida Music Educators Association (FMEA) Annual Clinic-Conference in Tampa, FL.

*Teaching Musical Concepts through Multimedia Performance.* 2009. Presented at the College Music Society (CMS) Southern Chapter Regional Conference at the University of Central Florida.

*The Online Graphical Community as a Potential Interface for Interactive Music Performance.* 2008. Co-authored with Megan England (lead author). Presented at the Spark Festival of Electronic Music and Art at University of Minnesota and the Society for Electro-Acoustic Music in the United States (SEAMUS) National Conference at University of Utah.

*Pursuing NASM approval for an undergraduate music technology degree.* 2007. Presented at the 2007 Association for Technology in Music Instruction (ATMI) in Salt Lake City, UT.

*Discussion boards as a platform for sharing composition assignments.* 2007. Invited digital poster. Presented at the College Music Society (CMS) Pre-Conference Technology Boot Camp.

*The Laptop Ensemble as a Pedagogical Tool.* 2006. Panel co-chair with Virgil Moorefield. Presented at the International Computer Music Conference (ICMC) at Tulane University.

*Perceptually significant features of granular processing.* 2006. Presented at the international symposium on The Creative and Scientific Legacies of Iannis Xenakis in Ontario, Canada.

*Exploring New Places for New Music.* 2006. Invited panelist. Presented by the Canadian League of Composers as part of the soundaXis festival in Ontario, Canada.

*Music technology in higher education: different models, common issues and future trends.* 2003. Co-authored with Peter V. Swendsen. Presented at the Association for Technology in Music Instruction (ATMI) Meeting in Miami, Florida.

*Understanding the Perception of Granular Processing.* 2003. with Gary S. Kendall and Scott D. Lipscomb. Presented at the Society for Music Perception and Cognition (SMPC) Biennial Meeting at University of Nevada, Las Vegas.

*A Granular Toolkit for Cycling74's Max/MSP.* 2002. Presented at the Society for Electro-Acoustic Music in the United States (SEAMUS) National Conference at University of Iowa.

**GRANTS**

Hand Grant for Course Development. *Teaching musical concepts through electronic music*. Stetson University, Summer 2007.

Graduate Summer Research Grant. *Completion of PhD Candidacy Requirements*, Northwestern University, Summer 2002.

Graduate Summer Research Grant. *Granular Synthesis Toolkit Development*, Northwestern University, Summer 2001.

**SERVICE**

Banner Center for Digital Media, Education Steering Committee (October 2008-present)  
Digital Arts Program Committee (Fall 2005-present, Chair: Fall 2008-present)  
Academic Technology Committee (Fall 2007-present)  
Publications Board, At-Large Member (Fall 2006-present)  
Digital Arts Visiting Lecturer Search, Chair (Spring 2009)  
McMahan Hall Design Advisory Committee (Fall 2007-Spring 2009)  
Faculty Interviewing Group for University President Search (October 2008)  
Undergraduate Research Committee (Fall 2005-Spring 2006)

**PROFESSIONAL MEMBERSHIPS**

International Computer Music Association (ICMA)  
Association for Technology in Music Instruction (ATMI)  
College Music Society (CMS)  
Phi Mu Alpha Sinfonia

**HONORS AND AWARDS**

University Fellowship, Northwestern University, 1999-2000.  
Music Scholarship, Stetson University, 1995-1999.  
Academic Scholarship, Stetson University, 1995-1999.  
Omicron Delta Kappa (Leadership Honorary), 1999.  
Pi Kappa Lambda (Music Honorary), 1998.