

## Curriculum Vitae

### Profile

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- » Two decades transforming vision into action as an education leader and strategist, active and inclusive learning innovator, program developer, curricula designer, and all things creative, with diverse teams and audiences
- » Leading teams in designing and delivering active, learner-centered teaching and learning strategies, programs, curricula, assessments, and analytics to optimize efficacy and engagement
- » The ability to advance the efficiency, efficacy, and spirit of teams, and craft meaningful, data-driven, human-centered learning experiences that catalyze system-wide change
- » A talent for tech, a knack for storytelling, and the vision to transform how organizations engage their audiences and each other

### Education

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2017

[Master of Science \(MSc\), Digital Education](#) (Honours)

The University of Edinburgh, Moray House School of Education, College of Arts, Edinburgh, Scotland, UK

Institutional Strategy for Online Education / Learning Engineering / Education Theory Research / Instructional Design / Learning Technologies / Learning Analytics / Educational Data Mining / Digital Game-Based Learning / Education Equity, Diversity, and Inclusion

2016

[Learning Analytics: Process and Theory](#)

Columbia University, Teachers College, New York, NY, USA

Educational Data Mining / Intelligent Tutoring Systems / Artificial Intelligence in Human Learning

2011

[Intelligent Audio Systems](#)

Stanford University, Center for Computer Research in Music and Acoustics (CCRMA), Stanford, CA, USA

Music Information Retrieval / Data Mining / Human-Computer Interaction / Machine Learning

2011

[Creative Coding](#)

Gray Area Foundation For The Arts, San Francisco, CA, USA

Creative Coding / Human-Computer Interaction / Music Information Retrieval / Interactive Applications

2007

[Algorithmic Computer Music \(WACM\) Certificate](#)

University of California, Santa Cruz, Santa Cruz, CA, USA

2006

[Apple Certified Master Trainer Certification](#) ACT T3 (28 Certifications)

Apple, Boston, MA, USA

2001

[Bachelor of Applied Science \(BASc\), Sound Arts](#) (Honors)

Ex'pression Center for New Media, Emeryville, CA, USA

Acoustics / Recording / Mixing / Mastering / Sound Design / Post Production / Signal Processing /  
Electronics / Electronic Composition / Interactive Audio / Multimedia Programming

## Education Experience

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September 2017 - present

[Learning Engineering, Engagement, and Strategy Consultant](#)

Unforgettable Learning, San Francisco, CA (Remote)

Leading corporate and academic teams in designing and delivering active, learner-centered teaching and learning strategies, programs, curricula, assessments, and analytics to optimize efficacy and engagement.

January 2021 - November 2022

[North America Director of Learning Design](#)

SAE Institute North America, North America (Remote)

- Founded the Learning Design department for the North America system of colleges from scratch.
- Led learning designers and learning media developers in collaboration with curriculum committees, SMEs, and XFNs to develop and implement creative arts higher education teaching and active learning applications in multiple modalities for 7 North American campuses.
- Served as the institutional expert for online and hybrid learning.
- Led academic and instructional innovation initiatives.
- Led the integration of learning design in the curriculum development of new academic programs and the enhancement of legacy programs.
- Oversaw systemwide learning management systems.
- Ensured institutional accreditation compliance and global educational quality standards.
- DE&I focused.

October 2018 - September 2021

[Director of Education](#) / SAE Expression College, Emeryville, CA

- Chief academic and student affairs officer for the campus
- Responsible for managing all aspects of academic operations
- Hiring and training 60+ Program Chairs and faculty and supporting thousands of students
- Oversaw the Office of the Registrar, Office of Student Affairs, library/learning resource center, learning technology
- Development, implementation, and maintenance of internal and external policies, including Standards of Accreditation
- SEVIS principal designated school official (PDSO)

- Programs: Animation and Visual Effects, Game Art, Game Design and Development, Digital Filmmaking, Audio, Sound Arts, Interactive Audio, and Entertainment Business, career preparation, fine arts, core, and general education

April 2010 – December 2018

### [Academic Programs Chair](#) / SAE Expression College, Emeryville, CA

- Professor of Audio, Game, Motion Graphics, and Film programs, including Sound Design, Post, Electronic Music, Game Audio, Experimental Composition, Intermedia Installation, Interactive Environment Design, Recording Arts, Signal Processing, Technical and Creative Project Development, Capstone Research & Thesis Advisor
- Developed and managed the rollout of baccalaureate programs across campuses
- College representative for Ed, Tech, and community panels, conferences, and workshops
- Awarded Instructor of the Year. Awarded Faculty Member of the Year
- Responsible for improving KPIs, including measurable student success, new enrollments, attrition, and reentries
- Original Accreditation and renewal experience
- Experienced in U.S. DoE Gainful Employment regulations for Title IV eligible programs
- Experienced in Title IX regulations. Experienced in ADA protections and accommodations
- Designed and executed annual budgets and purchases of \$XXM.
- Managed 124,000 square feet of audio/video facilities and equipment across two campuses.
- Advised, planned, and supported Facilities in the design and development of the branch campus and the multi-million-dollar build-out of the main campus.

September 2008 – June 2014

### [Executive Director of Professional Training](#)

SAE Expression College, Emeryville, CA

Independently developed and led the college's professional training and certification branch from the ground up. 221 unique students in the first year. Complete P&L responsibility.

January 2009 – January 2012

### [Manager of Program Development](#) / SAE Expression College, Emeryville, CA

Responsible for the development of new academic degree programs.

June 2002 – April 2010

### [Academic Course Director and Assistant Professor](#)

SAE Expression College, Emeryville, CA

Oversaw academic courses and taught in the Audio, Game, Motion Graphics, and Film programs.

November 2015 – March 2019

### [North America Chair of Curriculum Design](#)

SAE Institute North America, North America (Remote)

Led North America team of instructional designers and SMEs in original program development, institutional strategy, compliance, market relevance, articulation, curricula, resources, active teaching and learning tools, and online platforms for Diplomas, Associate, and Bachelor degrees for 9 campuses.

January 2018 – January 2019

### [Instructional Designer](#) (Volunteer) / After-School All-Stars, Oakland, CA

Developed comprehensive after-school arts programs in underrepresented communities.

September 2012 – November 2015

### Lecturer and Curricula Designer

San Francisco State University, San Francisco, CA

Lecturer and Curricula Designer, Graduate and Undergraduate level courses: Sound Design, Advanced Recording & Production, Post Production, Electronic Music, and Game Audio. Student review average: 9.73/10.

February 2011 – June 2015

### Executive Director / Apple Training Hawaii, Kilauea, HI

Founded the professional certification training centers from the ground up. Oversaw academics and operations. Complete P&L responsibility. Designed programs, courses, curricula, and policy.

## Creative Experience

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July 1993 – present

### Chief Creative / THE STUDI/O, Oakland, CA

Multimedia expert production and consulting: music/sound, games/interactive media, AR/VR, and mixed media composition, design, studio, performance, installation, and production for hundreds of artists and companies, including Apple, Google, LeapFrog, Honor Code, Legends The Game, Robot Invader, Eagre Games, OtoCast, Universal Audio, Ableton, Twisted Tools, iZotope, Imagine Research, Tarpan Studios, WorkforceLogic, Bag End, City of Emeryville, SEAMUS, Peachpit Press, Focal Press, KSFR Santa Fe Public Radio, Shure, SMACNA, 1Light Media, Country Road Films, Harbor Picture Company, Stardust Brands, Alsiona, Mazrine, Massimiliano Giornetti, Salvatore Ferragamo, GQ, Vogue Magazine, PSY, PETA, (dub pioneer) Scientist, Greg Phillinganes, Siedah Garrett, Narada Michael Walden, James Taylor, Carole King, Smokey Robinson, Billy Joel, Sting, Elton John, and Katy Perry.

March 1991 – present

### Interdisciplinary Artist / Independent, Oakland, CA

Electronic and electroacoustic music, light, sound and video design, studio, performance, and mixed media installation.

February 2011 – August 2015

### Producer, Composer, Music Supervisor / Country Road Films, Los Angeles, CA

Multimedia production, mastering, composition, and performance for clientele including GQ, Vogue, PSY, and Katy Perry.

July 2001 – September 2004

### Producer, Songwriter, Arranger, Recording, Mixing, and Mastering Engineer

Narada Michael Walden - Tarpan Studios, San Rafael, CA/Los Angeles, CA

Worked closely with one of Billboard Magazine's Top Ten Producers of All Time: 57 #1 Hits, multi-GRAMMY, Emmy & multi-Platinum, Producer and Artist Narada Michael Walden. Worked on countless projects, including work for artists James Taylor, Carole King, Smokey Robinson, Greg Phillinganes, Siedah Garrett, Billy Joel, Sting, and Elton John.

*"A man for all seasons...from Ahmad Jamal to the hippest in contemporary music, Chris knows how it's done...a whiz with the computer and the drums. Chris has the genius touch."* – Narada Michael Walden

September 1997 – May 1998

**On Air Host and Show Producer** / KSFR Santa Fe Public Radio, Santa Fe, NM

Producer and On-Air Host for prime-time radio shows 'Artist Portrait,' 'Stereo Jelly,' 'Eclecticism,' and 'All Talk Don't Bounce.'

## Selected Writings

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2023

### **Augmenting the Reality of Learning Environments**

Education Technology Insights (*coming soon*)

2017

### **Learning Efficacy of Multimedia in Interactive Augmented Reality Environments**

Augmented Reality is an incipient technology rooted in traditional multimedia with attractive applications for education. Mobile devices travel with billions of people globally, and the inherently mobile nature of AR, with its simple and inexpensive implementation relative to the potentialities exhibited for pervasive, personal, and connected learning, indicates that it is poised to supplement the future of multimodal educational dissemination. The present study explored the learning efficacy of multimedia forms within interactive augmented reality environments. The results are important for confirming academic quality when employing emergent practices. This information may be of value for educators, instructional designers, and learners seeking to utilize empirical evidence as the basis of educational design decisions and learning strategies. The study isolated media types within AR experiences and evaluated their efficacy for learning.

2016

### **Effects of Arts Education and Underserved Communities**

This article explores the potential of arts education access and practice and advocates that arts education is integral to human rights, social justice, and intellectual, democratic, and cultural inclusivity with qualities of importance to the empowerment and equity of underrepresented communities.

2016

### **Adaptive Learning Design Implications: Effects of Multimedia on Learning Efficacy and Cognitive Load**

An experimental and data-driven study to inform effective adaptive learning domain model development decisions with an incipient exploration of cognitive load and learning efficacy when utilizing multimedia stimuli. These platforms' systems rely on sophisticated feedback from human interaction, educational theory, learning analytics, and educational data mining. The pilot comprised an overview of the proposed research, relevant literature on orthogonal and intersecting agendas, imbricated methodological experimentation, data processing, and anticipated challenges. Results demonstrate that media types and combinations of media exhibit varying cognitive load, consequently impacting learning efficacy.

2009

### **Apple Pro Training Series: Logic Pro 9 and Logic Express 9: Professional Audio Production**

Peachpit Press, Technical Reviewer, Apple Pro Training Series: Logic Pro 9 and Logic Express 9: Professional Audio Production

## Certifications

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Avid Pro Tools Certification	2017
Workshop in Algorithmic Computer Music, University of California, Santa Cruz	2007
Apple Certified Master Trainer (28 Certifications)	2006

## Academic Awards

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Honours, The University of Edinburgh	2017
Fellow, Advance HE (FAHE) in recognition of attainment against the UK Professional Standards Framework for teaching and learning in higher education	2016
Faculty Member of the Year, Expression College – Staff Selection	2009
Instructor of the Year, Expression College – Students' Selection	2008
Honors, Ex'pression Center for New Media	2001
Artistic Merit Scholarship, Ex'pression Center for New Media	2000

## Professional Associations

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Acoustical Society of America (ASA)  
 Advance HE (AHE)  
 Association for Computing Machinery (ACM)  
 Audio Engineering Society (AES)  
 Center for New Music (C4NM)  
 Fractured Atlas  
 Game Audio Network Guild (GANG)  
 Institute of Electrical and Electronics Engineers (IEEE)  
 Interactive Audio Special Interest Group (IASIG)  
 International Society for Music Information Retrieval (ISMIR)  
 Society for Electro-Acoustic Music in the United States (SEAMUS)  
 Society of Professional Audio Recording Services (SPARS)  
 Special Interest Group on Computer Graphics (SIGGRAPH)

## Selected Broadcasts

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Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Steve Reich	May 31, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Grisey and Murail	May 24, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Alexander Scriabin	May 17, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Morton Feldman	May 10, 1998

Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Daphne Oram	May 3, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Prince Far I	April 26, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: King Tubby	April 19, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: François Bayle	April 12, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Pierre Schaeffer	April 5, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Edgard Varèse	March 29, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Éliane Radigue	March 22, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Laurie Spiegel	March 15, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Pierre Boulez	March 8, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Bernard Parmegiani	March 1, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Mathews and Risset	Feb. 22, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Pauline Oliveros	Feb. 22, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Earle Brown	Feb. 15, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: David Bowie	Feb. 8, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: R. Stevie Moore	Feb. 1, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Stereo Jelly: Punk, Noise, Avant-Garde	Jan. 25, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, All Talk Don't Bounce	Jan. 25, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: La Barbara and Monk	Jan. 25, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Stereo Jelly: Punk, Noise, Avant-Garde	Jan. 18, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, All Talk Don't Bounce	Jan. 18, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Coltrane, Jones, Ali	Jan. 18, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Stereo Jelly: Punk, Noise, Avant-Garde	Jan. 11, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Eclecticism: Reggae, Rap, Jazz, Electronic, World	Jan. 11, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Pérotin and Arvo Pärt	Jan. 11, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Stereo Jelly: Punk, Noise, Avant-Garde	Jan. 4, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Eclecticism: Reggae, Rap, Jazz, Electronic, World	Jan. 4, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Ayler, Coleman, Dolphy, Braxton	Jan. 4, 1998
Host KSFR 90.7 FM, Santa Fe Public Radio, Stereo Jelly: Punk, Noise, Avant-Garde	Dec. 28, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Eclecticism: Reggae, Rap, Jazz, Electronic, World	Dec. 28, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: The Velvet Underground	Dec. 28, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Iannis Xenakis	Dec. 21, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Terry Riley	Dec. 14, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Scelsi and Schnittke	Dec. 7, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Berg and Webern	Nov. 30, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Aphex Twin	Nov. 23, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Squarepusher	Nov. 16, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Autechre	Nov. 9, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Negativland	Nov. 2, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Alvin Lucier	Oct. 26, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Christian Wolff	Oct. 19, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: David Tudor	Oct. 12, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: La Monte Young	Oct. 5, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: John Cage	Sept. 28, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Messiaen and Satie	Sept. 21, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: Fela Kuti	Sept. 14, 1997
Host KSFR 90.7 FM, Santa Fe Public Radio, Artist Portrait: KRS-ONE	Sept. 7, 1997
Guest Co-Host WZRD 88.3 FM, Northeastern Illinois University, Chicago, IL	March 1992
Guest Co-Host WZRD 88.3 FM, Northeastern Illinois University, Chicago, IL	Feb. 1992
Guest Co-Host WZRD 88.3 FM, Northeastern Illinois University, Chicago, IL	Jan. 1992

## Selected Works and Exhibitions

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<b>200+</b> Producing, Recording, Mixing, Mastering, Sound Design, and Game Credits	1993 – present
<b>Adjudicator</b> , Society for Electro-Acoustic Music in the United States (SEAMUS) Judge for SEAMUS 2020 and 2021 National Conferences	2019 – 2022
<b>OtoCast</b> Mobile App, The City of Emeryville, Content Producer/Sound Designer/Audio Engineer	2019
<b>ZED</b> , Eagre Games Multiplatform/VR, Recording Engineer, Sound Designer, VO Editor, Dialog Processing / Mastering	2019
<b>Dead Secret Circle</b> , Robot Invader Multiplatform/VR, Recording Engineer, Sound Designer, VO Editor, Dialog Processing / Mastering	2018
<b>Narcosis</b> , Honor Code Inc., Multiplatform/VR, Audio support	2017
<b>Stratum</b> , Center for New Music, San Francisco, CA	2017
<b>Salvatore Ferragamo</b> , Composer, Lo Splendore Della Vita, International, >1M views	2016
<b>St0cHastAk0v1Ch</b> , autocomposer A fully programmable sequencer application developed in a graphical environment. Probability distribution autocomposer functionality with Dmitri Shostakovich homage-scale constraint. Controls for independent and global pitch and velocity, independent and vector linear pitch and modulation, independent and global note on/off, and quick-drum-sequencer section.	2016
<b>Electroacoustic Compositions for Guitar</b> featuring <b>Mike Keneally</b>	2015
<b>Nightingale</b> , sonification of Phaedrus Plato's dialog Phaedrus, represented by sound and musical traits; morphology; phonology.	2015
<b>Skeuomorph</b> , algorithmic concatenation Atmospheric story generated from a narration library employing corpus-based concatenative synthesis.	2015
<b>Designing Musical Software</b> , San Francisco State University, A.S. Theater Presentation of live audio coding in a graphical environment, followed by an interactive performance utilizing original music software.	2014
<b>Earthquakes</b> (Remix), The Candle Thieves	2014
<b>Simulacrum</b> , formant transformations with Kyma	2014
<b>Face2Phase</b> , facial gestural controller for audio and visual synthesis	2013
<b>PSY</b> , Composer, Vogue Italia feature, International	2013
<b>C<sup>2</sup></b> , Boulevard, Chicago, IL. Electronic performance, laptop, objects, electronics, controllers	2013
<b>Adaptive Systems Toolkit</b> , development in Kismet, graphical environments for interactive design	2012
<b>Katy Perry</b> , algorithmically produced composition, Vogue Italia, International	2012
<b>GQ</b> , Composer, International	2011
<b>Laptop Quintet</b> , Impromptu, CCRMA, Stanford University, Stanford, CA	2011



<b>PETA</b> , Composer, Save the Seals campaign, International	2011
<b>Playboy</b> , Composer, features, International	2010
<b>SynthesImage</b> , spectral synthesis, audio sonification of imagery Spectral synthesis audio sonification of image gallery.	2010
<b>Twisted Tools</b> Sound Designer and Drum Programmer for Vortex, Scapes, Rolodecks, S-Layer, and Buffeater instruments.	2010
<b>CodeTrain</b> , algorithmic analysis and performance Algorithmic compositional tool coded in LISP to create new performances in the style of John Coltrane. The software is designed to recognize patterns in rhythm, note order, and melodic, harmonic, and contrapuntal movements and progressions, producing new music in the style of the recorded data set.	2009
<b>Glitch Machine v1.2</b> LISP-coded system used to analyze and modulate rhythm data sets and create rhythmically new, complex, and polyrhythmic patterns.	2008
<b>C<sup>2</sup></b> , Tonic Room, Chicago, IL. Electronic performance, laptop, objects, electronics, controllers	2008
<b>a-morph-ous</b> , algorithmic composer Transformative algorithmic compositional software written under the mentorship of David Cope and his Experiments in Musical Intelligence, with the original intent to produce new symphonic works in the styles of Gustav Mahler and Béla Bartók. Developed as a model, the software recognizes patterns in rhythm, note order, and melodic, harmonic, and contrapuntal progressions, producing new music in the style of the input data set. Developed as three analysis systems: polyphonic without rhythm for intractability, polyphonic with rhythm utilizing a Markov decision model, and polyphonic with rhythm and measure structure using a Markov model while constraining analysis to smaller segments for less divergent composition.	2007
<b>eLiS</b> , list sonification Data analysis tool written in Common LISP. Intentioned initially to provide an auditory representation of inaudible information such as earthquake activity, populations across locations, weather patterns, and extraterrestrial storms. eLiS scales and translates lists of information into MIDI pitch, velocity, on-times, duration, and channels, among other parameters, to observe audibly.	2007
<b>IMPULSION</b> - electroacoustic improvisation & field recording soundscape Multi-channel installation of an improvised performance of a self-designed percussion instrument and found sounds processed by discrete impulse responses captured at their original recording location - autonomously generated, the signals are processed to effect perception.	2006
<b>Legends The Game</b> , complete sound design	2006
<b>Viriconium</b> , Muse Gallery, Chicago, IL. Autonomous and interactive prepared percussion and synthesis installation utilizing a recursive feedback instrument.	2006
<b>Girl on a Train</b> , McGonigal's, Barrington, IL. Live electronics, sound and light experiments with live electronic ensemble 7 League Boots	2005
<b>Scientist</b> , Dub Pioneer Hopeton Brown, Engineer	2005
<b>Colour and Silence</b> , The Onion, Chicago, IL. Electronic performance, live electronics, sound and light experiments, noisemakers, controllers, drum kit	2004
<b>Explorer Smart Globe</b> , LeapFrog, Sound Designer and Editor (contract)	2004
<b>String dissection</b> Interactive music concatenation system developed within a game engine.	2004

<b>C<sup>2</sup></b> , Lilly's, Chicago, IL. Electronic performance, laptop, objects, electronics, controllers, drum kit	2003
<b>Billy Joel</b> , Arranger, Rock for the Rainforest, Carnegie Hall	2002
<b>Carole King</b> , Arranger, Rock for the Rainforest, Carnegie Hall	2002
<b>Elton John</b> , Arranger, Rock for the Rainforest, Carnegie Hall	2002
<b>James Taylor</b> , Arranger, Rock for the Rainforest, Carnegie Hall	2002
<b>Siedah Garrett</b> (Michael Jackson/Madonna), Engineer, Siedah	2002
<b>Smokey Robinson</b> , Arranger, Rock for the Rainforest, Carnegie Hall	2002
<b>Sting</b> , Arranger, Rock for the Rainforest, Rainforest Foundation Concert, Carnegie Hall Reconceptualization of previously composed work. Worked with Musical Director Narada Michael Walden on high profile conversancy benefit spearheaded by Sting and Trudie Styler.	2002
<b>About Time</b> , tape effects study	2001
<b>Jacked Kerowack</b> Composed by transforming recordings of Jack Kerouac reading his work. Conversely, the spoken word is affected by parameters unique to the newly generated composition.	2000
इंडिया, field recording library created throughout Australia and India	1999
<b>Duets</b> , J. Angelo (saxes, flute) C. Colatos (drums/electronics) live KSFR Santa Fe Public Radio	1998
<b>Blight</b> , Cerrillos Historical Society, Duet, w/ J. Angelo. Cerrillos, NM	1997
<b>Inharmonique</b> Michael Wilding Gallery, Santa Fe, NM. Installation, drone, two reel-to-reel tape machines and electronics, experiments in equal temperament, alternative tunings, and beating.	1997
صلح, Improvised processed drone ensemble. Whispering Dove, Santa Fe, NM	1997
<b>Baroque Ornaments</b> Santa Fe Art Institute, Santa Fe, NM. Artist-in-residence. Soundscape installation for tape and projection of reimagined and recorded historical and contemporary local sound.	1996
<b>Percussion Ensemble</b> , International Community School, Addis Ababa, Ethiopia	1996
ጣጣጣ, field recording library created throughout East Africa	1996