Experimental Music & Digital Media

Creating the future of music — today
addresses the emerging understanding that technology, computation and digital resources have profoundly changed the way in which we compose, perform, study and teach music.
Experimental Music & Digital Media (EMDM)
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Jesse Allison, DMA
UMKC

Stephen David Beck, PhD
UCLA

Edgar Berdahl, PhD
Stanford
EM/DM

- Degree Programs
  - PhD in Music
  - EM/DM Concentration
  - Bachelor of Arts in Music
  - AVATAR Minor in Digital Media

Trey Duplantis, BA in Music (Class of 2014)
PhD in Music - EM/DM

• Research-oriented Degree, designed for composers, performers, theorists, educators

• Everyone composes, everyone performs, everyone writes code

• Projects include:
  • IMP - the Improvising Musical Partner
  • Audio triggered visualizations of musical performances
  • Web Audio compositions
  • The “DIY Maker” culture in Electronic Music
BA in Music

• Liberal Arts music degree
  • Applied lessons in electronic music composition
  • Laptop Orchestra
  • AVATAR Minor in Digital Media
• Undergraduate Research Opportunities
FireFaders - a haptic device for performing virtual instruments

Research

- Supercomputing for Music
- Physical Computing
- Sound Spatialization & Diffusion
- Mobile Music Apps
- Music Over Networks
Creation

- Interactive Computer Music
- Studio Recording & Composition
- Music for Laptop/Mobile Ensembles
- Virtual/Physical Lutherie

The Stingray - Edgar Berdahl
Performance

• Laptop Orchestra of Louisiana
• Louisiana Mobile App Orchestra
• Cinema for the Ears
• High Voltage
Collaborations

- School of Music
- School of Art
- School of Computer Science & Electrical Engineering
- Manship School of Mass Communication
- Center for Computation & Technology (CCT)
Symposia & Workshops

• First Symposium on Laptop Ensembles and Orchestras (SLEO 2012)
• New Interfaces for Musical Expression (NIME 2015)
Digital Media Center

• Center for Computation & Technology
  • Cultural Computing
  • Digital Media Arts & Engineering Program
• AVATAR Minor in Digital Media
• Electronic Arts North American Testing Center
Digital Media Center

• Media Interaction Lab/Library (The MILL)
Digital Media Center

• Fabrication Lab
Digital Media Center

- Recording Studios and Post Production
Digital Media Center

- Digital Theatre w/ 4k Cinema and 72-channel surround sound
Social Structure
Gua
Experimental Music & Digital Media

http://emdm.music.lsu.edu/