

Eric J. Humphrey

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PERSONAL

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Lecturer, Music Engineering Technology
Frost School of Music
University of Miami
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Coral Gables, Florida 33124 USA

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Citizenship: U.S.

HIGHER EDUCATION

University of Miami, Coral Gables, Florida USA

M.S., Music Engineering Technology, December 2009

Thesis Project: *The Automatic Generation of Music Playlists for Rhythmic Auditory Stimulation in Recreational Running*

Advisors: Colby N. Leider (Department of Music) and Shannon K. de l'Etoile (Department of Music)

Additional coursework in digital signal processing, computer science, and embedded systems programming

Syracuse University, Syracuse, New York USA

B.S., Electrical Engineering, May 2007

Minor in Mathematics

Magna Cum Laude, with Honors

Senior Project: "High-Fidelity Digital Wireless Audio"

ACADEMIC
EXPERIENCE

University of Miami, Coral Gables, Florida USA
Lecturer, Music Engineering Program

Spring 2010

- MMI 593: Digital Signal Processing for Embedded Music Electronics (undergraduate/graduate)
Course Instructor

Graduate Teaching Assistant, Music Engineering Program

Fall 2008–Spring 2009

- MMI 172: Audio Design Laboratory III (undergraduate)
Laboratory Instructor
- MMI 401: Audio Electronics, Circuit Bending, & Alternative Controllers (undergraduate)
Teaching Assistant for Prof. Colby Leider (Department of Music)

Syracuse University, Syracuse, University USA

Recording Studio Assistant
(Department of Music)

Fall 2006–Spring 2007

Academic Excellence Workshop Facilitator
(Department of Eng. & Comp. Sci.)

Fall 2004–Spring 2007

- Calculus I (undergraduate)
- Calculus II (undergraduate)
- Calculus III (undergraduate)

Calculus Clinic Tutor
(Department of Mathematics)

Fall 2004–Fall 2006

Grader
(Department of Mathematics)

Fall 2004–Spring 2005

NON-ACADEMIC
EXPERIENCE

Stubble, LLC, Coconut Grove, Florida, USA

Creative Director

Spring 2009–present

Co-founding member of a mobile software development firm with a primary focus on the iPhone platform. Produced self-directed technologies in addition to procuring contract assignments. Oversee the design and implementation of mobile application interfaces.

THX, Ltd., Miami, Florida, USA; Goffstown, NH USA

Independent Contractor

Spring 2007–Fall 2008

Terms of consulting are protected by NDA.

Spectrum Efficiency Research Group, Syracuse University,

Syracuse, New York, USA

Laboratory Research Assistant

Summer 2006

Undergraduate research assistant for National Science Foundation sponsored project on radio frequency spectrum usage and efficiency.

REFEREED
CONFERENCE
PROCEEDINGS

E. Humphrey and C. Leider. 2009. “The Navi Activity Monitor: On Using Kinematic Data to Humanize Computer Music.” *Proceedings of the 2009 International Conference on New Interfaces for Musical Expression*. New York: Association for Computing Machinery.

OTHER SKILLS
AND EXPERTISE

Foreign Languages

- Familiar with French (3 years)
- Working Knowledge of Spanish

Musicianship

- Formal Training on Alto and Tenor Saxophone (8 years), Rhode Island All-State Jazz (1998), Concert Band (1997)
- Strong Familiarity with Guitar (10 years)
- Working knowledge of Mandolin, Piano, Drumset, Trombone

Research

- Semantic Audio Analysis, with a particular emphasis on beat tracking and tempo induction
- Human-Computer Interaction and User Experience Design
- Augmented Classical Instruments
- Embedded and Mobile Systems

Technical

- Proficient with Adobe Photoshop, Illustrator, Dreamweaver
- Proficient with Microsoft Word, Excel

- Competent with L^AT_EX
- Proficient with Assembly, C/C++, MATLAB; Competent with HTML, CSS; Familiar with Python, JavaScript

PROFESSIONAL ORGANIZATIONS Member, Audio Engineering Society
Member, Golden Key Honors Society
Member, Tau Beta Pi National Engineering Honor Society
Member, Pi Mu Epsilon National Mathematics Honors Society

HONORS AND AWARDS Syracuse University College of Engineering Dean's List (2004–2007)
National Merit Scholar
National Society of Collegiate Scholars

REFERENCES Colby N. Leider
Department of Music
University of Miami
Coral Gables, FL
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Corey Cheng
Department of Music
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