

John Arroyo

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| Education | 2006 – Present M.A., Electro-Acoustic Music | Dartmouth College | Hanover, NH |
| | 2003 – 2006 M.S., Electrical Engineering, Concentration in New Media Engineering | Columbia University | New York, NY |
| | 1994 – 1999 B.S., Electrical and Computer Engineering with a Fine Art minor | Carnegie Mellon University | Pittsburgh, PA |
| Graduate Studies | Electro-Acoustic Music Composition with Larry Polansky, Jon Appleton Music Theory/Composition with Charles Dodge, Kui Dong Computer Music with Brad Garton Digital Signal Processing/MIR with Dan Ellis, Ge Wang, Michael Casey Digital Image Processing/Statistical Pattern Recognition with Shih-Fu Chang | | |
| Current Academic Activities | New Music Ensemble – Performer & Composer, 2006-present Electrocab – Ensemble for emerging genres, 2007-present | | |
| Teaching Experience | Teaching Assistant , Composition of Electro-Acoustic Music, Fall 2007 Electronic Music Tutor (high school students), Fall 2006 - present Teaching Assistant , Electronic and Computer Music, CMU, Fall 1997 | | |
| Awards | Arts and Sciences Graduate Alumni Research Award , Dartmouth, 2007 Rhizome Commission Finalist , Rhizome, NY, NY, 2007 Graduate Student Travel Award , Dartmouth, 2007 José Martí Award for Academic Improvement , CMU, 1999 5th Place National Design Competition , SHPE, Philadelphia, PA, 1997 Academic Merit Scholarship , CMU, 1994-1998 | | |
| Work History | Sep 2006 – Present RA, Webmaster, & Baker Bells , Dartmouth College Manage the linux servers and the EA Music department website, Music research, Manage the scheduling and control system for the Baker Bells. | Hanover, NH | |
| | Jul 2002 – Sep 2006 Web Developer , Columbia University (UDAR/LDPD) JAVA developer for Intranet and online donation applications, Support for the regional alumni club websites and primary alumni website (UDAR). Developed Perl scripts for multi-institutional data feeds, Designed and implemented a JAVA application for a scaleable meta data repository (LDPD). | New York, NY | |
| | Mar 2002 – Jun 2002 Freelance Web Developer , Independent Contractor Content management programming for Juice Software and Tokyo FM | New York, NY | |

Feb 2001 – Feb 2002

Senior Web Developer, Juice Software New York, NY
Managed a small web team integrating a content management system (Eprise) as well as developing custom intranet tools and online applications

Jun 2000 – Jan 2001

Internet Architect, Kioken Inc Dallas, TX / New York, NY
Developed content management systems for dynamic multimedia websites

Jun 1999 - Jun 2000

Engineer, Sapien Corporation Dallas, TX
Part of a development team designing and implementing an online IPO system and integrating a customer relationship management system

**Previous
Academic
Activities**

LabROSA – Researcher in Music Information Retrieval (MIR), 2004-2006
Music Engineering Art Projects (MEAP) – member, 2005-2006
Audio Engineering Society (AES) – Columbia Vice President, 2005-2006
WRCT Pittsburgh, Radio DJ, 1995-1996, 1998-1999
Electronic Media Organization, VP & Co-Founder, 1998-1999
Society of Hispanic Professional Engineers, Activities Chair, 1997-1999
Filmmaking Club, Charter member and film festival participant, 1994-1996

**Professional
Activities**

Red Flavored Records, DJ/Producer/Co-Owner, 2004-present
Freelance Web Development, Various Web Projects Including:
Intocable Merchandise, Indian Larry, Jeco Music, Prohibit NYC, Juice Software, Tokyo FM, 2002-present

**Publications,
Articles and
Proceedings**

ICMC Concert Review, Array Journal, International Computer Music Association 2007

D.P. Ellis and J. Arroyo, Eigenrhythms: Drum Pattern Basis Sets For Classification and Generation, In Proc. Int. Conf. on Music Info. Retrieval, ISMIR-04, Oct 2004

**Select
Compositions**

#103, for Trumpet and Electronics, 2007, Trumpet valves are miced and processed for clicks and gated feedback

MEAPsoft Chopshop, 2007, Composed tape pieces were made using MEAPsoft and mixed and scratched live using turntabalism technique

Better Days, 2006, Originated as a commissioned score to an animated short, later was extended with harder rhythms into a danceable composition

Phase Vocoder Interpretations, 2005, Reinterpreted 3 of my previous compositions using my custom Phase Vocoder software.

Boom Boom, 2004, Funky house track with hypnotic loops created using speech synthesis software, wave editors, and a DAW.

Select
Performances &
Exhibitions

World Synth, 2003, Composition revolving around globalized folk music. The intro uses custom sine wave synthesis.

Tribute to Karlheinz Stockhausen, 2003, Noise composition creating rhythmic melodies by manipulating colored noise (white, pink, etc).

Vagamundo, 2002, Interactive ice cream cart portraying the plight of a Mexican immigrant in New York City, by Ricardo Miranda & John Arroyo.

The Way to Go Out, November 15th 2007, Spheris Gallery, Hanover, NH
Electrocab Performance

Boston Cyber Arts Festival, April 27th 2007, Slosberg Hall, Waltham, MA
MEAPsoft Chopshop

Hartt School of Music Concert, April 22nd 2007, West Hartford, CT
Tape Piece with 2 dancers (Choreography by Stephanie Sleeper)

Orange Corner, July 30th 2006, Ibiza, Spain
DJ'ed and played original music

Pacha, March 25th 2006, New York, NY
DJ'ed and played original music

Winter Music Conference '05, March 26th 2005, Whitelaw Hotel, Miami, FL
DJ'ed and played original music

Red Pepper Sessions, February 26th 2005, Sullivan Room, New York, NY
DJ'ed and played original music

Boogaloo, October 15th 2004, Cologne, Germany
DJ'ed and played original music

Re:NEW Frontiers of Creativity, September 30th 2004, Columbia University, New York, NY
Exhibited Vagamundo

ALT Digital, October 24th – April 30th, 2003-04, The American Museum of the Moving Image, Queens, NY
Exhibited Vagamundo

Rauch Club, February 26th 2003, Feldkirch, Austria
DJ'ed

Version>03: Digital Arts Convergence, March 27-30, 2003, Museum of Contemporary Art, Chicago, IL

Exhibited Vagamundo

Race in Digital Space 2.0, October 11-12, 2002, University of Southern California and Los Angeles Museum of Contemporary Art, Los Angeles, CA
Exhibited Vagamundo

Peter Coffin's "Perfect If On", March 29th 2002, Andrew Kreps Gallery, New York, NY
Performed improvised music for plants

Presentations & Lectures

North East Music Information Special Interest Group, May 25th, 2008, New York, NY. Poster, "Eigensynth: Derivative Beat Box"

Composition of Electro-Acoustic Music, May 24th, 2007, Hanover, NH
Guest Lecture, "DJ Paradigms in Electro-Acoustic Music"

SS in Sound and Music Computing, July 26th, 2006, Barcelona, Spain
Eigensynth and the applications of derivative rhythm generators

Dorkbot, April 5th 2006, New York, NY
Eigensynth, how it works and demonstration

MEAP (Music & Engineering Art Projects), October 10th 2005, NY, NY
Phase Vocoder, Eigenrhythms, and Eigensynth preliminaries.

ISMIR 2004, October 14th 2004, Barcelona, Spain
Eigenrhythms, method and results

Dorkbot, March 5th 2003, New York, NY
Production techniques for Vagamundo, a Migrants Tale

Computer Skills

Programming Languages: JAVA, C/C++, PHP, Perl, VB Script, and Coldfusion

Data & Presentation Languages: XML, XSLT, SQL, HTML, Ajax, JavaScript and CSS

Server Technologies: Tomcat (JSP), Apache, .Net, Eprise Participant Server (CMS), and Silknet (CRM)

Databases: Oracle, DB2, MS SQL Server, and MySQL

Software Applications: Ableton Live, Pro Tools, Matlab, Max/MSP, Dreamweaver, Photoshop, Illustrator, Flash, MS Office, Cubase, and Traktor

Websites

www.johnarroyo.com
www.remixin.org
www.djfingers.com

