

# Roy Vanegas

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<http://roy.vanegas.org>

- EDUCATION
- ◇ **Queens College, City University of New York**  
Flushing, NY (September 2010 – June 2012)  
Master of Arts  
Concentration: composition
  - ◇ **New York University**  
New York, NY (June 2006 – June 2010)  
Master of Professional Studies  
Concentration: computer music and electronics
  - ◇ **Hunter College, City University of New York**  
New York, NY (September 2000 – July 2001; January 2004 – December 2009)  
Bachelor of Arts  
Major: computer science  
Major: music  
Minor: mathematics
  - ◇ **Brooklyn College, City University of New York**  
New York, NY (September 2008 – February 2009)  
Coursework in music composition
  - ◇ **Columbia University**  
New York, NY (September 2001 – December 2003)  
Coursework in computer science and the liberal arts
  - ◇ **Queensborough Community College**  
Bayside, NY (February 1997 – July 2000)  
Associate in Science  
Major: liberal arts  
Minor: mathematics
- GRANTS,  
SCHOLAR-  
SHIPS, AND  
FELLOWSHIPS
- ◇ **Tisch School of the Arts Scholarship**  
New York University, summer 2009
  - ◇ **Xavier University of Louisiana/New York University grant**  
New York University, spring 2007
  - ◇ **Tisch School of the Arts Scholarship**  
New York University, summer 2006 - spring 2007
  - ◇ **Pearl Cleveland Wilson Scholarship**  
Hunter College, spring 2006
  - ◇ **Ida L. Soontup Scholarship**  
Hunter College, fall 2005
  - ◇ **Summer Research Institute**  
University of Arizona, summer 2005
  - ◇ **Alice Hannan Scholarship**  
spring 2005
  - ◇ **International House Videographer Fellowship**  
spring 2005

- ◇ **International House Grant**  
spring 2005
- ◇ **International Leadership Program**  
2004–2005 academic year
- ◇ **Scholarship and Welfare Grant**  
Hunter College, 2004–2006 academic year
- ◇ **McNair Research Fellowship**  
Hunter College, summer 2004–present
- ◇ **Continuing Student Scholarship**  
Columbia University, 2002–2003 academic year
- ◇ **New Student Scholarship**  
Columbia University, 2001–2002 academic year
- ◇ **Dean's List**  
Queensborough Comm. Coll., 1999–2000 academic year

PUBLICATION The MIDI Pick, *2007 Proceedings of International Conference on New Interfaces for Musical Expression (NIME07)*, June 2007 ([http://roy.vanegas.org/itp/nime/the\\_midi\\_pick](http://roy.vanegas.org/itp/nime/the_midi_pick))

COMPUTER SCIENCE & ENGINEERING RELATED COURSES	◇	Advanced Programming, using Java, Perl, and C Computer Architecture I, II, and III Graph Theory Embedded Systems Genomic Information Science & Technology Computer Theory I and II Digital Logic Software Design & Analysis I, II, and III Computational Cameras Personal Expression and Wearable Technologies Database Systems	◇	The Nature of Code Intro to Software Engineering in Java Operating Systems Programming Languages – C Programming Languages – C++ Embedded Systems Unix Tools Intro to Physical Computing Developing Assistive Technology Sensor Workshop Sociable Objects Workshop
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MUSIC RELATED COURSES	◇	Masterpieces of Western Music Music Performance (Piano) Max/MSP Digital Sound Workshop: MIDI and Synthesis Music Theory I, II Musicianship I, II Choir Chorus American Music & Politics Algorithmic Composition Maintenance and Mechanism of the Piano Jazz Theory Live Image Processing & Performing (using Max/MSP/Jitter)	◇	Piano I Intro to Music Research Computer Music New Interfaces for Musical Expression Individual Instruction in Music Music History 2 Ethnomusicology Private Composition Lessons with Jason Eckardt Private Composition Lessons with Joan La Barbara Group Composition Course with Shaffer Mahoney Advanced Computer Music Composition Composing for Film Redefining 5.1 (Thesis)
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SKILLS

- ◇ C (expert), HTML 4.01 (expert), CSS 2.1 (expert),  $\LaTeX$ (advanced), MySQL (competent), PHP (competent), JavaScript (competent)
- ◇ Mac OS X, Unix and its variants, Microsoft Windows and MS-DOS
- ◇ Cubase SX and 4 (specialist), Audacity (proficient), Final Cut Pro (proficient), and Max/MSP (competent)
- ◇ Fluent spoken/written Spanish

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- RESEARCH INTERESTS      Music composition (both electro, acoustic, and electro-acoustic), new instrument design, musical instruction, technology in education
- RESEARCH EXPERIENCE
- ◇ **Resident Artist**, League of Electronic Musical Urban Robots (LEMUR)  
Brooklyn, New York (December 2008)
    - Composed new compositions for a showcase performance alongside LEMUR's Guitarbot, a robotic, guitar-like musical instrument.
    - Also, re-arranged previously written material for voice, guitar, violin, and the Guitarbot.
  - ◇ **Visiting Researcher**, The Studio for Electro-Instrumental Music (STEIM)  
Amsterdam, The Netherlands (January 2007)
    - Furthered my work with The MIDI Pick, a project developed for the NYU course New Interfaces for Musical Expression, by researching and implementing scaling and optimization techniques.
  - ◇ **Visiting Researcher**, University of Arizona  
Tucson, AZ (June 2005 – August 2005)
    - Remote musical instruction using both the MIDI protocol and the Internet (<http://roy.vanegas.org/research/>). Partial conclusion: August 2005.
- INTERNSHIP EXPERIENCE
- ◇ **Intern**, Eyebeam (<http://www.eyebeam.org/>)  
New York, NY (September 2009 – December 2009)
    - Helped to design, build, and configure EEG sensors and DC to DC converters for portable video devices.
    - Wrote C-based code to parse algorithmic file data for use in video device.
  - ◇ **Intern**, Pando Networks (<http://www.pando.com/>)  
New York, NY (June 2006 – August 2006)
    - Uploaded videos to cache server for Yahoo! Messenger plug-in.
    - Edited and re-arranged video content for RSS feed.
    - Conducted quality assurance on products in pre-release stage.
- WORK EXPERIENCE
- ◇ **Software Developer**, Undisclosed social networking Web site for release in late 2010  
New York, NY (May 2010 – present)
    - Building and maintaining backend database in MySQL.
    - Establishing intercommunication between MySQL database and client-side browser using the PHP scripting language.
    - Designing Web page interactivity and behavior using JavaScript, with an emphasis on the compound Internet technologies comprising Ajax
    - Creating presentation and layout content using W3-compliant HTML 4.01 and CSS 2.1.
  - ◇ **Instructor**, Continuing Education Division, Hunter College  
New York, NY (January 2005 – present), (<http://roy.vanegas.org/teaching>)
    - Teaching or have taught *Introduction to C*, *Introduction to Java*, *Mastering Cubase*, *Creating a Web Page with HTML*, *CSS: An Introduction*, *JavaScript* (Spring 2010), *XML* (Fall 2010).
    - Develop lesson plans, lectures, exams, and assignments for each course.
    - Update class Web sites on a weekly basis.
    - Maintain each course in a structure comparable to that of a typical first-tier course in computer science at the degree-granting university level.
    - Throughout the duration of each course, typically ten to fourteen weeks, provide extra support on a one-to-one basis for students.

- ◇ **Tutor**  
New York, NY (June 2005 – present)
  - Tutor Photoshop, CSS, and HTML in one-hour weekly sessions.
  - Also tutor the C programming language in one- or two-hour weekly sessions.
- ◇ **Visiting Instructor/Volunteer**, Xavier University of Louisiana  
New Orleans, LA (March 2007)
  - Taught and co-taught multiple workshops on digital audio, including techniques in capturing, rendering, and compressing.
  - Helped to build the enclosure for the Open Shutters project, a video booth used to collect the unedited testimonies of Hurricane Katrina victims (<http://ny2no.net/openshutters/>).
- ◇ **Tutor/Project Assistant**, Special Services & McNair Scholars Division, Hunter College  
New York, NY (February 2006 – August 2006)
  - Tutored C++ language constructs, hardware architecture, algorithm logic, and the UNIX operating system.
  - Assisted director in recruiting new talent for yearly scholarship recipient pool.
  - Performed outreach, using standard and electronic media, to create awareness regarding tutoring and support services offered by our program.
- ◇ **Equipment Technician/Videographer**, Programs and Resident Life, International House  
New York, NY (May 2004 - May 2005)
  - Performed the duties of a sound engineer, operating specialized high-end audio/visual equipment for various events throughout the academic year.
  - Videotaped various special events, including discussions by distinguished speakers.
  - Ensured the basic upkeep of items in the audio/visual equipment inventory.
  - Edited, compiled, and audio-engineered, on Apple Computer's Final Cut Pro software and Steinberg's Cubase SX, a 22-minute video yearbook.
  - Maintained an itemized backlog of audio/visual equipment, repairing or replacing faulty items upon incident.
- ◇ **Webmaster**, Southern Asian Institute, School of International and Public Affairs, Columbia University  
New York, NY (August 2001 – December 2003)
  - Maintained, on a semester basis, all online schedule of events.
  - Rewrote upwards of sixty-five pages of HTML code “by hand” for conformation with W3C standards for HTML 4.01.
  - Added Cascading Style Sheet (CSS) forms, making entire domain CSS Level 2 conformant.
- ◇ **Webmaster**, Institute of African Studies, School of International and Public Affairs, Columbia University  
New York, NY (July 2002 – September 2003)
  - Kept current all online content, including programs and events.
  - Reorganized entire markup content structure.
  - Added JavaScript, including pop-up menus for simpler navigation, and a CSS component to all markup code in order to facilitate future code maintenance.
  - Brought site up to W3C HTML 4.01 standards for conformity across numerous operating system platforms running various browsers.