

HUGO SOLÍS GARCÍA

CURRICULUM VITAE

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NACIONALITY: Mexican

DATE OF BIRTHDAY: June 25th 1976

Academic studies

PhD studies:

2006 to now. Center for Digital Arts and Experimental Media (DXARTS), University of Washington, Seattle USA.

Independent Studies Richard Karpen

Research Studio V & VI James Coupe

Research Techniques in Digital Arts Stacy Waters

Independent Studies Bruce Ray Hemingway

Introduction to Human Computer Interaction (listener) James Landay

Software for Embedded Systems Bruce Ray Hemingway

Mechatronics Arts I, II, & III James Coupe

Research Studio IV Juan Pampin.

Introduction to Acoustics and DSP Vladi Chaloupka

Video Art Carrie Bodle

Architectural Sketching Nan-Ching Tai & Gail Wong

Computer Graphics. Brian Curless

Presentation for Industrial Design. Ahn Sang-gyeun

Digital Sound Synthesis I, II & III. Juan C. Pampin

Artificial Intelligence. Steve Tanimoto

Sound in Space. Juan C. Pampin

Research Studio I, II & III. Shawn Brixey

Artificial Intelligence (listener). Rajesh Rao

DEA studies:

2004 to 2006. Pompeu Fabra University, Barcelona Spain.

Degree: DEA in Computer Sciences and Digital Communication.

Music Technology Group.

Aspects of Graphics and Hypermedia. Josep Blat and Paul Verschure.

Advanced Topics in Music Technology. Hendrik Purwins, Rafael Ramirez and Xavier Serra.

Web Retrieval and Mining (Listener). Ricardo Baeza-Yates and Mounia Lalmas.

Topics in Music Content Processing. Stephen Downie; Anssi Klapuri and Frans Wiering.

Advanced Introduction to Artificial Intelligence. Héctor Geffner.

Introduction to Image Processing. Jean Michel Morel.

Research Seminar. Coordinated by Víctor Dalmau, Gustavo Deco and Marcelo Bertalmío.

Fundamentals of Computer Science and Digital Communication. Josep Blat; Marcelo Bertalmío; Josep Polo; Gustavo Deco; Héctor Geffner; Terry Jones; Xavier Serra and Juan Gabriel Rendón.

Master studies:

2002 to 2004. Media Laboratory, Massachusetts Institute of Technology.

Degree: Master of Science in Media arts and Sciences.

Total average: 9.80/10

Sensor Technologies for Interactive Environments (listener). Professor Joe Paradiso.

Music Perception and Cognition (listener). Professor Peter Cariani.

Computer Graphics Workshop. Professor John Maeda.

Projects in Media and Music. Professor Tod Machover

Writing for Computer Performance. Professor Barry Vercoe.

Introduction to Computers and Engineering Problem Solving (listener) Professor Geroge Kocur.

Principles of Electronic Music Controllers. Professor Joe Paradiso.

Autonomous Art. Professor Chris Csikszentmihályi.

Music Aesthetics and Media Technology. Professor Tod Machover.

Research in Media Technology.

Undergraduate studies:

1996 to 2001. National School of Music of the UNAM. Mexico City.

Degree: Bachelor degree in piano

Total average: 9.40/10

Piano studies with Professor Mauricio Náder. 2001-2002.

Piano studies with Professor Tere Frenk 2001

Fall 2000 done at New York University in the program: exchange program for undergraduate students to North America.

Piano studies with Professor Edgar Robert. 2000 (New York University)

Piano studies with Professor Andrés Acosta. 1997 to 2000.

Composition studies with Professor Dr. Julio Estrada. 1996 to 2000.

Piano studies with Professor Velia Nieto Jara. 1996 – 1997.

Composition studies with Professor Federico Ibarra. (Not register) 1996.

Propedeutic studies (requirement):

1993 – 1996 National School of Music (ENM), UNAM. Mexico City.

Piano studies with Professor Eva del Carmen Medina Amezcua.

Composition studies with Professor Salvador Rodríguez Lara.

Total average: 9.80/10

Introductory studies:

1992 – 1993 Piano classes at *Amadesus Academia*. Mexico City

1982 – 1991 Organ classes at *Sala Veerkamp* and *Sala Chopin*. Mexico City

Publications, Academic work, conferences and teaching

Program Committee (reviewer) for the 2008 *New Interfaces for Musical Expression* conference.

Teacher Assistance for the course *Advanced Digital Sound Síntesis and Processing* at the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

Teacher Assistance for the course *Digital Sound Processing* at the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

Teacher Assistance for the course *Digital Sound Synthesis* at the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

Teacher for the course *Digital Improvisation* at the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

Program Committee (reviewer) for the 2007 *International Computer Music Conference (ICMC)*.

Program Committee (reviewer) for the 2007 *New Interfaces for Musical Expression* conference.

Teacher Assistance for the course *Interactive Computer Music with the Super Collider Programming Language* at the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

Teacher for the course *Undergraduate Research Studio* at the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

Teacher for the course *Digital Sound* at the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

March 2007. Teaching of the course *Art and New Technologies* at the “Escuela Nacional de Música” of the Universidad Nacional Autónoma de México.

March 2007. Teaching of the course *Improvisation and Machine Listening* at the “Escuela Nacional de Música” of the Universidad Nacional Autónoma de México.

Teacher Assistance for the courses *Digital Art and New Media - History, Theory and Practice* and *Fundamentals of Digital and Experimental Art I* at the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

DEA thesis *Understanding Collective Gestural Improvisation; a computation approach*. Pompeu Fabra University. June 2006.

Program Committee (reviewer) for the 2006 *International Computer Music Conference (ICMC)*.

Program Committee (reviewer) for the 2006 *New Interfaces for Musical Expression* conference.

Pedagogical coordinator for the children’s workshops for the *Toy Symphony* concert at the *Casa de Música* Porto Portugal. March 10 -18 2006.

Article *Einstein on the Beach* in *Ciencias* magazine of the Sciences Department of the Universidad Nacional Autónoma de México. October-December 2005.

August 2005. Course of Computer Music at the “Conservatorio de las Rosas”, Morelia México.

August 2005. Course of Computer Music at the “Escuela Nacional de Música” of the Universidad Nacional Autónoma de México.

Program Committee (reviewer) for the 2005 *New Interfaces for Musical Expression* conference.

Collaborator in the reactable* project developed by the Interactive System Group at the Music Technology Group. Pompeu Fabra University. 2005 - 2006

2005 Teacher of courses; Computer Sciences II, Computer Sciences III and Physics laboratory at the Pompeu Fabra University.

Master's thesis *IMPI; Improvisatory Music and Painting Interface*. Media Lab, MIT. July 2004.

Real-time Distributed Media Applications in LANs with OSC, Tristan Jehan, Dan Overholt, Hugo Solís García, Cati Vaucelle. Proceedings of the 1st Open Sound Control conference. Berkeley, July 2004.

Speaker in the conference *Radio Arte*, David Alfaro Siqueiros's Hall. Universidad Michoacana. Morelia Mexico. December 9 2003.

Presentation of the paper *The Experience of Teaching and Collaborating with a Young Composer in the Creation of an Electro-acoustic Piece*, Brasilia University. III Encuentro Internacional de Musica Electroacústica. Brazil. November 10 2003.

2004-2004. Research Assistant at the "Opera of the Future" group at the Media Laboratory of the Massachusetts Institute of Technology.

Undergraduate thesis work *GAB Sistema de Reinterpretación para Pianos*. Escuela Nacional de Música, Universidad Nacional Autónoma de México. November 2001.

Paper *El espacio físico como variable estructural en música*. Not published. ENM UNAM. 1998.

Concerts, presentations, participation on groups or ensembles, and music compositions

Piano and electronics player for a solo piece in the DXARTS concert. Meany Hall, University of Washington. Seattle USA. April 15 2008.

Video graphics during the concert *Consider Vincent* at Brechemin Auditorium, University of Washington. Seattle USA, March 16 2007.

Video graphics during the concert *Amy Rubin & Friends in Motion* at *The Chapel Performance Space*. Seattle USA, March 7th 2007.

Electronics player with the Juum Duet at *The Chapel Performance Space* during the festival *Seattle Latin American Music*, Seattle USA. September 29th 2007.

Piano player with the Juum Duet in the *Piano Christening Collective Concert* at *The Chapel Performance Space*. Seattle USA, July 20th 2007.

Electronics player with the Juum Duet in the *Net-concert Juum-Auro duet of duets*, Seattle USA – Évora, Portugal. June 14th 2007.

Electronics player with the Juum Duet at *The Chapel Performance Space*, Seattle USA. June 1st 2007.

Electronics player with the Juum Duet at the *1412 Gallery*, Seattle USA. May 12th 2007.

Electronics player with the Juum Duet at the *Sonorities Festival 2007* at the Sonic Arts Research Centre, Belfast. April 23th 2007.

Piano and electronics player for a solo piece in the DXARTS concert. Meany Hall, University of Washington. Seattle USA. April 10th 2007.

Piano player in the acoustic concerts of the *Duo Juum* at the *Festival de Día de Muertos*. Seattle Center. October 28 and 29 2006. Seattle USA.

Electronics player with the EnsAmble Crumble + reacTable at the Metronome Gallery Barcelona Spain. 07-26-2006.

Electronics player at the concert of the composer Mauricio Rodriguez at the *Uno Uno Prima* festival. Teatro al Parco. Parma Italy. July 14th 2006.

CD *La nave de los locos* with the Duo Juum. Recorded at the Phonos's studio, Barcelona. Summer 2006.

Electronics media player in the concert of the Juum duet at the FNAC forum. 06-30-2006. Barcelona Spain.

Electronics player with the EnsAmble Crumble at the Can Fabra Center, Barcelona Spain. 06-17-2006.

Founder of the electroacoustic improvised duet *Duo Juum* with violist Gabriela Villa. June 2006.

Founder and electronic mediums player of the electroacoustic improvised group "Ensemble Crumble". Barcelona Spain. 2005

Computer player for the piece *Gestures* within the *Toy Symphony* concerts. MIT's Kresge Auditorium, April 26 2003. *Winter Garden*, Financial Center New York,. May 17 2003.

Composer in collaboration with Natasha Sinha in the piece *Gestures* for acoustic ensemble and Music Shapers. Commissioned by the Media Lab for the *Toy Symphony* project. December 2002 to April 2003.

Soloist piano player in the improvisatory concert *Equipaje*. Xicoténcatl park. August 10 2002.

Piano accompanist in the Gabriela Franco's concert within the *1st Temporada de Conciertos de la ENM en la ENEP Aragón*. José Vasconcelos Hall, ENEP Aragón, July 16 2002.

Composition of the soundscape *Peceros* for the photographic exhibition of Nirvana Paz.

Music composer and computer player for the experimental choreography *Metáforas de Plástico* conducted by Nora Manneck and the *Viandante* group. Antonio Gonzáles Caballero Hall. Jun 28, July 3 and 5 2002.

Speaker in the program *El arte de escuchar el radio arte*, realized by Lourdes de Quevedo in *Radio Educación*, Broadcast of *Central Observatorio*. June 26, 2002.

Piano player for the Salvador Rodríguez's piece *Reflejos* within the the IX program of the *XXIV Foro Internacional de Música Nueva, Auditorio Blas Galindo CENART*. May 18, 2002.

Electronic mediums player in the NICROM Trio concert at the *EXPO UNAM 450 años*. Main stage of the Minería Palace, México D.F. November 25, 2001.

Electronic mediums player for *Siderales I* of Mauricio Rodríguez within the *Mira que te estoy escuchando* congress, *Hall Xochipilli, National School of Music*. November 19, 2001.

Piano, electronics and GAB system concert; *Hall Xochipilli, National School of Music*. November 17, 2001 (Bachelor final exam).

Piano, electronics and GAB system concert; *EXPO UNAM 450 años*, Hall of the Minería Palace, México D.F. November 11, 2001.

Piano accompanist in the concerts of the show *The singing as scenic art in Mexico*, III Art Festival of Sinaloa, October 18, 19, 21, 22, 23, 2001.

Piano accompanist in the concerts of the singer Gabriela Franco in the exposition *EXPO UNAM 450 años*, Hall of the Minería Palace, México D.F. September 30 and October 7, 2001.

Piano player in the concert of Professor Tere Frenk's students. *Hall Xochipilli, National School of Music*. September 10, 2001.

Piano accompanist in the concerts of the singer Gabriela Franco in the program *Rain of concert* organized by the Cultural Department of Coyoacan. México D.F. August 5 and 11, 2001.

Electronic mediums player in the NICROM trio at the season of concert at the Morelos and Félix Azuela theaters of the IMSS. From January to May, 2000.

Founder and electronic mediums player of the electroacoustic improvised music Trio NICROM.

Premier of the piece "NY" for wind instruments in the concert of the class Electronic Music Performance coordinated by Tom Beyer. Department of Music Technology, College of Arts and Sciences of New York University. December 21, 2000.

Exposition of the project "Reminiscences" during the academic presentations of the Java Music Course gave by Professor Nick Didkovsky. Department of Music Technology, College of Arts and Sciences of New York University. December 18, 2000.

Piano player in the concert of the NYU New Music & Dance Ensemble. Frederick Loewe Theater. December 11, 2000.

Piano player of the NYU New Music & Dance Ensemble conducted by Professor Esther Lamneck. From August to December, 2000.

Professor assistant for the research work for the electroacoustic concerts of ONIX. *Hall Xochipilli, National School of Music*. November 22 and December 11 2000.

Design and performance of the project *UNIVERSUM, improvisations for processed piano*, music for the Universum museum. Trébol studios. June 2000.

Piano player of the Garibay-Solís duo. Festival: *Fete de la musique. Centre Culturel et de Coopération IFAL*. Jun 21, 2000.

Piano accompanist in the concert of the Luis Humberto Ramos's students. *Hall Xochipilli, National School of Music*. Jun 20, 2000.

Synthesizer player in *Floop* of Esa-Pekka Salonen in the 9th program of the *XXII Foro Internacional de Música Nueva Manuel Enríquez. Auditorio Blas Galindo CENART*. May 29, 2000.

Piano player in the concert of Alejandro Escuer's Music Ensemble Course. *Hall Xochipilli, National School of Music*. April 11, 2000.

Electronic mediums player in an electronic music concert. *Hall Xochipilli, National School of Music*. April 10, 2000.

Sound effects and audio edition of the short film *Reciclo del Biciclo*. December 1999.

Music composer and electronic mediums player in the inaugural concert of the Ixchel Solís's art exposition *Reminiscencias. Casa de la Cultura de la Universidad Autónoma del Estado de México*. November 12, 1999.

Record, edition and production of the CD *Música para el silencio*. Music compositions by David Martínez. August 1999.

Electronic mediums player for *Siderales I* of Mauricio Rodríguez in the *Espectáculo de luz y sonido* in the festival *Intermedios*. Hall of the TELMEX Foundation. July 31, 1999.

Electronic mediums player for *Siderales I* of Mauricio Rodríguez in the *Concert of Electronic Music. Escuela Superior de Música, Universidad Autónoma de Coahuila*. May 14, 1999.

Piano player in the concert of Alejandro Escuer's Music Ensemble Course *Entre cañas y martinetes. Hall Carlos Chávez*. March 3, 1999.

Piano accompanist in the concert of the soprano Rosa Sierra Santos. Festival: *Saltillo con vida. Auditorio Carmen Aguirre de Fuentes of Radio Concierto*, Saltillo, Coahuila. July 24, 1998.

Piano accompanist in the concert of the clarinet player Rodrigo Garibay. *Hall Huehuecoyotl, National School of Music*. Jun 25, 1998.

Music composer and piano player in the *Suite for movement and Piano*. Choreographer Mirta Blostein. *Experimental Hall of the National School of Classic and Contemporary Dance of the National Center for the Arts*. May 7, 8, 9 and 10, 1998.

Music composer for the theatre play *Invitation the dead* of Xavier Villaurrutia. Directed by Francisco Carrera. *Hall Villaurrutia*. April and May 1998 .

Pianist player in the performance of *Lethe* of François-Bernard Mâche. Conference-concert dictated by the composer. *Hall Xochipilli, National School of Music*. April 1998.

Presentation of the theoretical work *The physic space as structural variable in music* at the Laboratory of Music Creation. *National School of Music*. March 1998.

Piano accompanist in the concert of the soprano Rosa Sierra Santos. *Hall Huehuecoyotl, National School of Music*. December 10, 1997.

Music composer and synthesizer player in the *Suite for movement and Keyboards*. Choreographer Mirta Blostein. *Experimental Hall of the National School of Classic and Contemporary Dance of the National Center for the Arts*. August 29, 30 and 31, 1997.

Church bell player in the closure concert of the *XIII Festival del Centro Histórico de la Ciudad de México*. Downtown square. April 29, 1997.

Piano player in a solo concert as student of the Professor Eva del Carmen Medina Amezcua. *Hall Huehuecoyotl, National School of Music*. April 22, 1996.

Piano player in the concert of Professor Eva del Carmen Medina Amezcua's students. *Hall Huehuecoyotl, National School of Music*. January 18, 1995.

Selected player in the *Second Interschool Music Contest of the UNAM* to perform original compositions. *Chopo Museum*. 1994

Organ player in the concert of professor Edgar Franco's students. *Sala Chopin*. February 29, 1992.

Exhibitions

(Programmed) Exhibition of the sound installation *Tell-Tale Piano* at the *McLeod Residence Gallery* June 6 2008. Seattle USA.

Exhibition of the audiovisual installation *OjosTeVean* at the TRANSITIO_MX 02 Festival. Centro Multimedia CENART. October 2007. Mexico City Mexico.

Exhibition trough documentation of the audiovisual installation *lx-.hel* at the TRANSITIO_MX 01 Festival. Centro Multimedia CENART. December 2005. Mexico City Mexico.

Attendance to courses, seminars, conferences, and workshops

Attendance to the *Two Thousand + SEVEN <<<2nd international symposium focusing on networked performance environments>>>* at the *Sonic Arts Research Centre*. 21st April 2007. Belfast.

Attendance to the course *El món com a instrument* organized by the *Institut de Ciències de l'Educació de la Universitat de Barcelona*. March – June 2006. Barcelona Spain.

Attendance to the *Fourth Workshop of Live Algorithms for Music*, Goldsmiths College. December 19th and 20th. London UK.

Attendance to the course *Analysis of the Electroacoustic Music of Iannis Xenakis*. Professor Makis Solomos. Zeppelin Festival, October 2005. Barcelona Spain.

Attendance to the *International Computer Music Conference*. September 5 – 9, 2005. Barcelona Spain.

Attendance to the *5th International Conference on Music Information Retrieval* and ICMIR Graduate School. October 10 – 19, 2004. Pompeu Fabra University. Barcelona Spain.

III International Conference of Electro-acoustic Music. Brasilia University. November 5 to 11 2003.

Long term workshop of *Radio Art*. Acoustic Art Experimental Laboratory of Radio Educación. November 2001 to August 2002.

Workshop: Radio art. Professor Daniel Velasco Schwarzenberger. *4th International Biannual of Radio*. Mexico City. May 20 to May 24 2002.

Workshop: *Premisas y ejercicios de improvisación*. Professor Jonathan Golove. Antiguo Colegio de San Ildefonso's Hall. *RADAR* festival. Mexico City. April 11 and 12 2002.

Workshop: *Proyección Sonora de la cinta La Lontananza nostálgica utópica futura de Luigi Nono*. Professor André Richard. Antiguo Colegio de San Ildefonso's Hall. *RADAR* festival. Mexico City. April 6 and 7 2002.

From August to December 2000, assistance to the courses: *Midi Technology*; *Electronics Technology*; *Audio & Video Music Systems –Java Music-* and *Digital logic Laboratory – Electronic Music Performance*. Music Technology department of the College of Arts and Sciences at New York University.

Composición y Análisis, imparted by Stefano Scodanibbio. Seminario Internacional de Composición. National School of Music. August 16 and 17 2000. Mexico.

La música para piano del siglo XX imparted by Mauricio Ramos Viterbo. National School of Music. August 10th to 14th 2000. Mexico.

Teoría de la Música Atonal imparted by Hebert Vázquez. *CENIDIM* of the *Centro Nacional de las Artes*. From February 9 to April 12, 2000.

Análisis e Interpretación de la Música de Béla Bartók imparted by Dr. Elliott Antokoletz. *Conservatorio de las Rosas*, Morelia Michoacán. From January 10 to January 14, 2000.

Perfeccionamiento Pianístico imparted by Bernard Flavigny. *Hall Manuel M. Ponce* of the *Palacio de Bellas Artes*. From November 22 to November 26, 1999.

Taller de composición musical organized by the I.R.C.A.M. *Centro Nacional de las Artes*. From July 10 to July 17, 1998.

Introducción al lenguaje del jazz imparted by Eugenio Toussaint. *Instituto Zacatecano de Cultura*, Zacatecas. From June 29 to July 3, 1998.

V curso internacional de composición Franco Donatoni. *Centro Nacional de las Artes*. From February 9 to March 6, 1998.

Nuevas técnicas para las cuerdas imparted by Stefano Scodanibbio. *National School of Music*. January 29 and 30, 1998.

La improvisación aplicada al lenguaje musical, piano e instrumentos monólogos imparted by Emilio Molina. *Universidad Veracruzana*. From June 30 to July 4, 1997.

Bajo cifrado imparted by Eunice Padilla. *National School of Music*. From March 31 to May 29, 1997.

Discontinuo, continuo imparted by Dr. Julio Estrada. *National School of Music*. First trimester 1996.

La música en el cine imparted by Lucía Álvarez Vázquez. *National School of Music*. From February 23 to March 10, 1995.

Musicalización de medios imparted by Héctor González Barbone. *Radio UNAM*. February and March, 1995.

Knowledge on computer software and electronic instruments

OPERATING SYSTEMS: Linux, Windows, MacOs.

PROGRAMMING LANGUAGES: High: Java. Medium: C, Python, Matlab. Low: Php, LISP, and SQL.

AUDIO PROGRAMMING: Jsyn, JMSL, MaxMsp, PD, Csound, Supercollider.

OFFICE: Text editors, Office, Latex, and web editors, etc.

MULTIMEDIA: audio and midi sequencers, score, image and video editors.

AUDIO ENGINEERING: Synthesizers, Effects processors, Mixers, Multitrack records, digital audio editors, etc.

ENGINEERING: Microcontrollers and basic analog and digital electronics.

Scholarships and Distinctions

2006 to now. Assistantship by the Center for Digital Arts and Experimental Media (DXARTS), University of Washington.

2005 Top-rated abstract of the Leonardo Abstracts Service (Leonardo Educators and Students Program) for the MS thesis *IMPI: Improvisatory Music and Painting Interface*.

2004-2006 Fellowship holder of a grant given by the Mexican Council for the Culture and the Arts for studying at the Pompeu Fabra University.

2002-2004 TELMEX Fellow at the Media Lab MIT.

2001 – 2002 Fellowship holder of a grant given by the Mexican Council for the Culture and the Arts for the improvement as a electronic mediums player and improviser.

Honoric Mention for the piece *Central Observatorio* within the 4th *International Biannual of Radio*. Mexico City. May 2002.

From August to December 2000, scholarship granted by the UNAM in the exchange program for undergraduate students to North America. With this scholarship it was possible to do the last semester of the bachelor at the College of Arts and Sciences of the New York University.

1998-2000, holder of a scholarship granted by the program Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica (UNAM) for the project *Innovación Tecnológica en la Composición Musical*, coordinated by professor Dr. Alejandro Escuer at the National School of Music of the UNAM.

1996-2000, holder of a bachelor scholarship for the academic excellence granted by the TELMEX Foundation.

1996, holder of a scholarship granted by the Programa de Apoyo a Proyectos de Investigación e Innovación Tecnológica (UNAM) for the project Música: Sistema Interactivo de Investigación y Composición (MUSIIC), coordinated by Professor Dr. Julio Estrada at the National School of Music of the UNAM.

Languages

Spanish

Primary language.

English 90%

1998 – 1999 Advanced courses Centro Universitario de Cultura. Mexico City.

Official TOEFL: December 17, 2001. Total score: 267

SPEAK test approved January 2007.

1990 – 1993 Basic and medium courses. Liceo Mexicano de Lenguas Extranjeras Mexico City.

French 40 %

2002 Intermediate courses. IFAL. Mexico City.

1999 – 2000 Basic courses. Centro Universitario de Cultura. Mexico City.

Basic studies

High school:

1991 - 1994 Colegio de Ciencias y Humanidades Plantel Sur (CCH Sur) UNAM. Mexico City.

Total average: 9.75/10

1991-1994. Selected member in the *Program of Incitements and Supports for Excellent Students* by the UNAM.

1994. Participant in the course and contest of *Meteorological Instruments* organized by the Meteorological Club of the CCH Sur.

1993. Student Argonaut at the Jason IV expedition to Baja California organized for the JASON Foundation for Education of the US. One week undersea researcher work together with American researchers and students.

1993 Collaborator on the design of the cultural magazine *Huntul* distributed in the CCH Sur.

Summer 1992. Participant in the UNAM project *Youngs into the Research*. Under this project it was possible to work with the Astronomer Alejandro Ruelas at the Astronomy Institute of the UNAM, helping on the elaboration of galactic contours for the work *Distribución de estrellas en nuestra galaxia. Un modelo matemático*.

1992. Third place of Mexico City in the 6th *Mexican Mathematics Olympiad* organized by the *Mexican Society of Mathematics*.

1992. First place by teams and second place individual in the *CCH SUR 6th Mathematics Local Contest*.

Junior High school:

1988 – 1991 Centro de Integración Educativa. Mexico City.

Total average: 9.5/10

1990. First place in the *Local Scientific Fair*. Therefore participant in the *National Scientific Fair* organized by the Ministry of Education.

1989-1990 and 1990-1991. Holder of a scholarship granted by the Ministry of Education.

Elementary school:

1986 – 1988 Centro de Integración Educativa. Mexico City.

1982 – 1986 Escuela Manuel Bartolomé Cossío. Mexico City.

Total average in the last year: 10/10