

MÓNICA LÓPEZ-GONZÁLEZ

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SUMMARY

I'm an English-Spanish-French-Italian-speaking Cognitive Scientist, Educator, Entrepreneur, Multidisciplinary Artist, Public Speaker, Science Communicator, Theorist, and Writer. As a visionary and accomplished practitioner of multidisciplinary and multicultural learning, design, and research, I merge questions, theory, methods, data, products, and experiences from both the Sciences and the Arts to better understand and unleash our creative thinking and making capacities as human beings. I'm the Co-Founder and Executive Scientific & Artistic Director of *La Petite Noiseuse Productions*, a unique company at the forefront of innovative Science-Art integration.

EDUCATION

- 2010 **Doctor of Philosophy, Cognitive Science**, Johns Hopkins University, Baltimore, MD
 - 2009 **Certificate of Art: Photography**, Maryland Institute College of Art, Baltimore, MD
 - 2007 **Master of Arts, Cognitive Science**, Johns Hopkins University, Baltimore, MD
 - 2005 **Bachelor of Arts, Psychology**, Johns Hopkins University, Baltimore, MD (with general & departmental honors)
 - 2005 **Bachelor of Arts, French**, Johns Hopkins University, Baltimore, MD (with general & departmental honors)
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PROFESSIONAL EXPERIENCE

CO-FOUNDER AND EXECUTIVE SCIENTIFIC & ARTISTIC DIRECTOR, LA PETITE NOISEUSE PRODUCTIONS; JAN 2014 - PRESENT

As entrepreneur I integrate my multidisciplinary Science-Art background and cross-cultural mindset to develop the next generation of radically novel interdisciplinary scientific-artistic works and public engagement programs within Film, Theatre and Photography. I use my Cognitive Brain Science training and expertise to pursue our company's unique Research & Development program in Creativity and Human Intelligence (see Publications for details), and run our consulting services, workshops and education programs integrating the Mind/Brain/Computational/Health Sciences, Arts and Entrepreneurship. *La Petite Noiseuse Productions* publishes all its novel works in multiple languages. I'm involved in all company activities including, but not limited to, product and budget development, implementation and management; operations; fundraising (private individuals and businesses); digital design content, marketing, implementation and advertising; writing, editing and publishing; interviewing and hiring personnel for all company projects; teaching and mentoring; public speaking; and creation of company's intellectual property. My contributions to company products, events, and services include publications of all its scientific research and artistic work, public theatrical productions, film festivals, and workshops are outlined below:

- **INVENTIONS FOR AN EQUITABLE & SUSTAINABLE ENVIRONMENT**

- Science-Art-Entrepreneurship Platform
- Cognitive Behavioral Model

- **OP-EDS**

- López-González, M. (February 19, 2018). A Scientist-Artist's Address to Today's Future, Session 593 - The Shock of the New: Arts, Technology and Making Sense of the Future, (Salzburg Global Seminar, Salzburg, Austria, 2018).

• **SCIENTIFIC PUBLICATIONS**

- López-González, M. (in press). Theoretically Automated Conversations: Collaborative Artistic Creativity for Autonomous Machines, IS&T Electronic Imaging Symposium: *Human Vision and Electronic Imaging*, (IS&T, Springfield, VA, 2018).
- López-González, M. (in press). Storyboard of Thoughts: Using Photography and Illustration to Visualize the Mind, IS&T Electronic Imaging Symposium: *Human Vision and Electronic Imaging*, (IS&T, Springfield, VA, 2018).
- Lebowsky, F. & López-González, M. (2018). Colorful Insights Supporting the Modeling of Creative Processes Across Language, Music and Emotion, IS&T Electronic Imaging Symposium: *Color Imaging XXIII*, (IS&T, Springfield, VA, 2018); DOI: 10.2352/ISSN.2470-1173.2018.16.COLOR-364.
- López-González, M. (2017). Manifesto for Empirical Revolution No. 2: the reseARch scientIST paradigm to unraveling the mind behind musical improvisation. *Diffrazioni 2016 Catalogue*, (Conservatorio Cherubini, Florence, Italy).
- López-González, M. (2017). Trading Conversations Between Science and Art: When Musical Improvisation Enters the Dialogue on Stage, IS&T Electronic Imaging Symposium: *Human Vision and Electronic Imaging*, (IS&T, Springfield, VA, 2017); DOI: 10.2352/ISSN.2470-1173.2017.14.HVEI-156.
- López-González, M. (2016). Minds in the Spotlight: Using Live Performance Art To Uncover Creative Thinking Processes, IS&T Electronic Imaging Symposium: *Human Vision and Electronic Imaging*, (IS&T, Springfield, VA, 2016); DOI: 10.2352/ISSN.2470-1173.2016.16.HVEI-143.
- López-González, M. (2015). Cognitive Psychology Meets Art: Exploring Creativity, Language, and Emotion Through Live Musical Improvisation in Film and Theatre. *Proceedings of SPIE 9394*, Human Vision and Electronic Imaging XX, 939403 (March 17, 2015); DOI: 10.1117/12.2083880.

• **EDUCATION + LEADERSHIP PUBLICATIONS**

- López-González, M. (in press). For Female Leaders of Tomorrow: Cultivate an Interdisciplinary Mindset. IEEE WIE Forum USA East, (IEEE, 2017).
- López-González, M. (2017). STEAM is hotter than STEM: The Why and What of My Teaching Paradigm in Higher Education. *SciArt Magazine – Special Topics STEAM Education issue*, August 2017.

• **ARTISTIC PUBLICATIONS**

- López-González, M. (May 2016). **Framed Illusion / Cornice Di Un'illusione – A Play in One Act**. La Petite Noiseuse Productions Publisher, Baltimore, MD, 1st Bilingual English-Italian Edition, Library of Congress Control Number 2016905738, ISBN 978-0-692-68538-9.
- López-González, M. (May 2016). **Si Así Fuere – Novela**. La Petite Noiseuse Productions Publisher, Baltimore, MD, 1st Spanish-Language Edition, Library of Congress Control Number 2016905737, ISBN 978-0-692-68537-2.
- López-González, M. (May 2015). **In Session / Chez L'Analyste – A Play in One Act**. La Petite Noiseuse Productions Publisher, Baltimore, MD, 1st Bilingual English-French Edition, Library of Congress Control Number 2015916595, ISBN 978-0-578-16467-0.
- López-González, M. (June 2014). **Última Partida / The Final Draw – A Play in One Act**. La Petite Noiseuse Productions Publisher, Baltimore, MD, 1st Bilingual Spanish-English Edition, Library of Congress Control Number 2015954211, ISBN 978-0-578-14352-1.

• **ARTISTIC PRODUCTIONS - THEATRE**

- June 2-18, 2016, Theatrical production world premiere of novel one-act play, **Framed Illusion (Cornice Di Un'illusione)**, I wrote, directed, and acted in a lead role in Baltimore, MD. Originally written in Italian and English, this 65-minute novel production about perception and memory at the nexus of Drama + Cognitive Psychology was presented in English.

CURRICULUM VITAE

- May 29-June 20, 2015, Theatrical production world premiere of novel one-act play, *In Session (Chez L'Analyste)*, I wrote, directed, and acted in a lead role in Baltimore, MD. Originally written in French and English, this unique 90-minute production about artificial intelligence, consciousness, perception and memory is at the intersection of Drama + Cognitive Science and was presented in English.
- June 19-29, 2014, Theatrical production world premiere of novel one-act play, *Última Partida (The Final Draw)*, I wrote and directed in Baltimore, MD and Washington, D.C. A new 75-minute drama addressing the six universal human emotions and their linguistic and musical nuances, this unique production is at the crossroads of Drama + Cognitive Psychology and was presented in Spanish with English surtitles.
- **FILM FESTIVAL**
 - MAY 27-29, 2015: Inaugural *Bmore en Español: Spanish-Language & Bilingual Spanish-English Film Festival* presented at Maryland Institute College of Art, Baltimore, MD. I ideated, organized, curated, and ran the inaugural film festival in Baltimore City, MD dedicated to screening local Spanish-language and bilingual Spanish-English contemporary work in cinema. Festival was produced by La Petite Noiseuse Productions, partially sponsored by the Office of Diversity and Intercultural Development, Maryland Institute College of Art and partially funded by an Ignite Baltimore's Fall 2014 Ignition Grant.
 - CINEMA (JULY 2013, MARCH 2014): Film short, *Moments*, I wrote, directed, shot, and edited for live jazz scoring during screenings at ARTSCAPE 2013 in Baltimore, MD and Washington Women in Jazz 2014 Festival in Washington, D.C.
- **MENTORING AND WORKSHOP SERVICES**
 - JANUARY 28, 2018: *Using Cognitive and Behavioral Sciences and the Arts in Artificial Intelligence Research and Design*, Electronic Imaging Symposium 2018 Short Courses, San Francisco, CA
 - SUMMER 2016: Provided mentoring to talented high school students in the Johns Hopkins Internship in Brain Sciences Program on the intersection between the cognitive, brain, computational and medical sciences and music perception and cognition. I taught and guided students through their own research projects, original science research paper writing, and public oral presentations.
 - APRIL 1, 2016: *What Art Reveals About the Human Brain*, Bright Lights Youth Festival, Light City Baltimore 2016, IMET Columbus Center, Baltimore, MD
 - MARCH 3, 2016: *Breaking Down the Creative Process: Transmedia Storytelling*, School of Media Sciences, College of Imaging Arts and Sciences, Rochester Institute of Technology, Rochester, NY

OTHER PROFESSIONAL POSITIONS

EXECUTIVE DIRECTOR OF BUSINESS DEVELOPMENT, NOVODUX; JAN 2014 - PRESENT

Lead business development projects related to biotechnology and therapeutics. Participate in company's market trend analyses, business presentations, product evaluation and strategic partnering. Interact with clients in various languages.

ADJUNCT FACULTY, PEABODY INSTITUTE OF JOHNS HOPKINS UNIVERSITY; BALTIMORE, MD – SEPT 2012 - PRESENT

I have pioneered, created, and teach the following interdisciplinary STEAMM courses:

- DEPARTMENT OF MUSICOLOGY (AUG 2017 - PRESENT)
 - Topics in Music Cognition*
- PEABODY AT HOMEWOOD PROGRAM (SEPT 2013 - PRESENT)
 - Introduction to Music Cognition* and *Topics in Music Cognition Parts 1 and 2*

CURRICULUM VITAE

- DEPARTMENT OF HUMANITIES (JAN 2014 - MAY 2014)
Surrealism course for undergraduates about the Surrealist movement and its effects on art theory, culture, history, politics, and science in the 1920s.
- DEPARTMENT OF MUSICOLOGY (SEPT 2012 - MAY 2013)
Topics in Music Cognition Parts 1 and 2 for undergraduates and graduates about how music is perceived, experienced, performed, and created. Students wrote original research papers and pop science articles and made short films for their final course projects.

ADJUNCT FACULTY, JOHNS HOPKINS UNIVERSITY; BALTIMORE, MD – JAN 2009 - PRESENT

I have pioneered, created, and teach the following interdisciplinary STEAMM courses:

- SUMMER & INTERSESSION PROGRAMS (JAN 2018)
BMore Inventive: Charm City Entrepreneurs weeklong, intensive course to introduce college freshmen to various established entrepreneurial successes within the arts & culture, science and tech sectors in Baltimore, MD. Students created mini business plans as their final course project.
- SUMMER & INTERSESSION PROGRAMS (JUNE 2017 - JULY 2017)
Neuroscience Applied: Designing and Communicating Theory and Research two weeklong intensive workshop-run course for pre-college students about brain, psychological, behavioral, computational, and medical science applications outside of the traditional academic laboratory setting. Students created, wrote, and designed original research projects and science-art visualizations.
- SUMMER & INTERSESSION PROGRAMS (JULY 2011-2012, 2014-2016, JUNE 2017 - JULY 2011-2012, 2014-2017)
Mind, Brain, and Beauty two weeklong intensive course for pre-college students about the neuroscience of aesthetics in music and visual art perception/cognition, creativity and artificial intelligence, and critical and creative thinking between Science-Art domains. Students wrote original research proposals for their final course project. Also organized multiple field trips to and activities within various cultural institutions around the Baltimore-Washington, D.C. area.
- SUMMER & INTERSESSION PROGRAMS (JAN 2009 - 2013, 2015-2017)
BMore: Charm City Through the Lens weeklong, intensive course to introduce college freshmen to Baltimore City via documentary photography, film, and visual perception/cognition and aesthetics, and critical and creative thinking between Art-Science domains. Students created either original photographic portfolios or short films as their final course project.
- ODYSSEY LIBERAL ARTS PROGRAM (SEPT 2016 - OCT 2016)
Minds and Machines non-credit course for working professionals about the interpretation of artificial intelligence and its expression throughout world literature.
- ODYSSEY LIBERAL ARTS PROGRAM (NOV 2015)
Mind, Brain, and Beauty non-credit course for working professionals about the (neuro)aesthetics of music and visual art perception/cognition, creativity, and artificial intelligence.
- ODYSSEY LIBERAL ARTS PROGRAM (MAR 2012 - APR 2012)
México Through the Silver Screen non-credit course for working professionals about Mexican cinema from the 40s to the 90s.
- DEPARTMENT OF COGNITIVE SCIENCE (JAN 2010 - MAY 2010)
Mind, Brain, and Beauty introductory course taught while a doctoral student for advanced undergraduates and graduates about the neuroscience of aesthetics in music and visual art perception/cognition, creativity and artificial intelligence. Students wrote original research papers for their final course project.

ADJUNCT FACULTY, MARYLAND INSTITUTE COLLEGE OF ART; BALTIMORE, MD – SEPT 2012 - JULY 2014

• INFORMATION VISUALIZATION

Taught novel interdisciplinary **Visual Cognition and Perception** online STEAMM (Science, Technology, Engineering, Arts, Mathematics, Medicine) course I pioneered for graphic design and digital technology graduate students about the human visual system, the neuroscience of visual art aesthetics, perception/cognition and data visualization, and critical and creative thinking between Science-Art domains.

DIRECTOR OF BUSINESS DEVELOPMENT, VALENS THERAPEUTICS, INC.; SEPT 2008 - DEC 2014

Led business development projects related to biotechnology, therapeutics, and medical devices. Participated in development of company's intellectual property, market trend analyses, product evaluation and strategic partnering. Interacted with clients in various languages.

POSTDOCTORAL FELLOW, DEPARTMENT OF OTOLARYNGOLOGY-HEAD AND NECK SURGERY, JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE; BALTIMORE, MD – OCT 2010 - SEPT 2013

Conducted original cognitive neuroscience and psychology research on the behavioral processes and neural correlates of artistic creativity with an emphasis on musical production, language, and emotion perception. Used a variety of behavioral, physiological and brain measures (i.e. functional magnetic resonance imaging (fMRI)) and techniques. Created and managed multiple experimental projects while supervising, mentoring and coaching undergraduates and other lab members.

FREELANCE TRANSLATOR, IMA WORLD HEALTH; SEPT 2013

Translated official organization public health documents from written English to written Spanish.

FILM FESTIVAL CURATOR; BALTIMORE, MD – FEB 2013 - APR 2014

Initiated, developed, programmed, and hosted Spanish-language film festivals for the public at Johns Hopkins University. Also included successful grant writing, creating all print and electronic advertising materials, promoting audience engagement and facilitating dialogue on classic and contemporary Latin American cinema in Baltimore, MD.

- March 5 - April 23, 2014, **Latin American Film Festival**
- March 28 - May 2, 2013, **Contemporary Latin American Film Festival**

CONTRIBUTING WRITER, CINESPECT: VIEWS ON THE NEW YORK FILM SCENE; JUNE 2012 - JUNE 2013

Joined film review writing team of the NYC-based online publication. Versed in cinema of the world: its themes, styles, and techniques. Reviewed entire sets of scheduled films for various renowned international festivals throughout New York City, NY.

Published Film Reviews

- López-González, M. (June 23, 2013). Observe, Think, Take Action. *Cinespect: Views on the New York Film Scene*.
- López-González, M. (April 17, 2013). "Old Ghosts, New Dreams": Cambodian Cinema at Film Society. *Cinespect*.
- López-González, M. (March 30, 2013). The 20th New York African Film Festival. *Cinespect*.
- López-González, M. (March 6, 2013). "Le Petit Soldat": In Search of an Ideal. *Cinespect*.
- López-González, M. (November 29, 2012). Third Eye: Self and Camera in Contemporary Arab Cinema. *Cinespect*.
- López-González, M. (September 27, 2012). Le Carré's Marriage to Conscience. *Cinespect*.
- López-González, M. (August 24, 2012). New Arab Cinema at Lincoln Center. *Cinespect*.
- López-González, M. (August 15, 2012). Hold Me, Thrill Me, Kiss Me, Kill Me. *Cinespect*.
- López-González, M. (June 27, 2012). Lourdes Portillo: La Cineasta Inquisitiva. *Cinespect*.

GGI BRAIN AWARENESS FELLOW, GEORGE GREENSTEIN INSTITUTE (GGI), INC.; SEPT 2011 - MAY 2012

Created, developed, and taught novel online idea lab ***Vision and the Brain!: Design Thinking With the Brain in Mind*** for the general public about the cognitive neuroscience of visual art aesthetics, design thinking, creativity, and brain health.

LEAD INTERVIEWER, VIDEOGRAPHER, & FILM EDITOR, RADAR REDUX; BALTIMORE, MD – SEPT 2008 - MAY 2009

Member of team, along with magazine's owner, to publish Baltimore's singular Arts and Culture magazine, *Radar Redux*, as an online platform. Worked with community artists and reviewed films from Maryland Film Festival 2009. Helped with magazine's marketing, branding and identity.

Publications

- López-González, M. (May 2009). Beetle Queen Conquers Tokyo: A New Documentary by Jessica Oreck. *Radar Redux*.
- López-González, M. and Cromwell, C. (May 2009). Modern Love is Automatic – MD Film Fest. *Radar Redux*.
- Cromwell, C. and López-González, M. (May 2009). MD Film Fest. Talking about sex...scenes. *Radar Redux*.
- López-González, M. (December 2008). Interview w/ Artist in Residence Rosetta DeBerardinis. *Radar Redux*.
- López-González, M. (December 2008). Interview w/ Baltimore-based painter Daniel Stuelpnagel. *Radar Redux*.
- López-González, M. (November 2008). Blackbird 13 ways: Interview w/ participating artists. *Radar Redux*.
- López-González, M. (November 2008). Scenes from Long Roads: Interview w/ photographer Andy Cook. *Radar Redux*.

TUTOR, PROFESSIONAL TUTORING SERVICE; BALTIMORE, MD – SEPT 2007 - AUG 2011

Mentored children grades 6 - 12 in Foreign Language (French, Spanish), Math, Science and Social Sciences.

PUBLIC SPEAKING ENGAGEMENTS

Invited Scientist-Artist speaker, panelist, consultant, and adviser at companies, conferences, galleries, classrooms, and other national & international venues about La Petite Noiseuse Productions' work, Entrepreneurship, Science-Art Integration, Creativity, STEAMM Education, Leadership, Artificial Intelligence, Autonomous Systems, Immersive and Impact-Based Learning, Cinema, Data Visualization, Human-Interactive Technologies, Public Engagement Strategies, Female Empowerment, Multidisciplinary, etc.

- May 21, 2018, ***Leading Innovation Through Polymathic Thinking and Entrepreneurship***
2018 IEEE WIE International Leadership Conference, San Jose, CA
- May 16, 2018, ***Why Intelligence is the Future: A Cognitive Perspective to Automation***
AutoSens 2018 Conference, Michigan Science Center, Detroit, MI
- Apr 11, 2018, ***From the Lab to the Stage and In-Between: Succeeding in the STEM Future***
Diversity Lecture Series, Loyola University Maryland, Baltimore, MD
- Feb 20-25, 2018, ***Session 593: The Shock of the New: Arts, Technology, and Making Sense of the Future***
Salzburg Global Seminar, Schloss Leopoldskron, Salzburg, Austria
- Feb 1, 2018, ***Theoretically Automated Conversations: Collaborative Artistic Creativity for Autonomous Machines***
Human Vision and Electronic Imaging (HVEI), International Conference on Perception and Cognition in Electronic Media, San Francisco, CA
- Jan 31, 2018, ***Storyboard of Thoughts: Using Photography and Illustration to Visualize the Mind***
Human Vision and Electronic Imaging (HVEI), International Conference on Perception and Cognition in Electronic Media, San Francisco, CA

CURRICULUM VITAE

- Dec 1, 2017, ***For Female Leaders of Tomorrow: Cultivate an Interdisciplinary Mindset***
2017 IEEE WIE Forum USA East, Baltimore, MD
- Nov 15, 2017, ***Cajal's Neuronal Forest: Science and Art by Dr. Javier DeFelipe***
Society for Neuroscience's (SfN) Dr. Javier DeFelipe's book launch, Former Residence of the Ambassadors of Spain, Washington, D.C.
- Nov 12, 2017, ***The Science and Art of Ramón y Cajal***
Society for Neuroscience's (SfN) Cajal Social Club, Former Residence of the Ambassadors of Spain, Washington, D.C.
- Oct 27, 2017, ***Disrupting Science and Art Worlds As Entrepreneur***
Hispanic Heritage Foundation's LOFT Charla, Johns Hopkins University, Baltimore, MD
- July 7-9, 2017, ***Polymath Retreat***
Imagination Institute, Positive Psychology Center, University of Pennsylvania, Philadelphia, PA
- Apr 1, 2017, ***The Cognitive Neuroscience of Creativity: interdisciplinary methods, results, and theory from merging Science, Art, & Entrepreneurship***
Omega Psi 2nd Annual Conference - Cognitive Science Through the 21st Century, Johns Hopkins University, Baltimore, MD
- Mar 24, 2017, ***Creating Educational Alternatives: Encouraging the S.T.E.A.M. in S.T.E.M.***
3rd Annual Meeting of the Society for the Neuroscience of Creativity (SfNC), San Francisco Conservatory of Music, San Francisco, CA
- Feb 8, 2017, ***From the Lab to the Stage: moving from academia to private sector***
Professional Development Lecture, Johns Hopkins Postdoctoral Association, Johns Hopkins School of Medicine, Baltimore, MD
- Feb 2, 2017, ***Trading Conversations Between Science & Art: When Musical Improvisation Enters the Dialogue On Stage***
Human Vision and Electronic Imaging (HVEI), International Conference on Perception and Cognition in Electronic Media, Burlingame, CA
- Jan 12, 2017, ***Creativity: Science, Art, Business***
High School Science Class, Bryn Mawr School, Baltimore, MD
- Nov 25, 2016, ***Manifesto for Empirical Revolution No. 2: the reseARch scientIST paradigm to unraveling the mind behind musical improvisation***
Diffrazioni Firenze Multimedia Festival 2016, Palazzina Presidenziale di Santa Maria Novella, Florence, Italy
- July 25, 2016, ***Unraveling Creativity: the reseARch scientIST Paradigm***
2016 International Conference on Mobile Brain-Body Imaging and the Neuroscience of Art, Innovation and Creativity, Live Aqua, Cancún, México
- Apr 25, 2016, ***Minds in the Spotlight: the reseARch scientIST paradigm***
HEAD Talk, Department of Neurology, Johns Hopkins School of Medicine, Baltimore, MD
- Apr 21, 2016, ***Is it S.T.E.M. or is it S.T.E.A.M.?***
Ignite Baltimore #18, Falvey Hall, Maryland Institute College of Art, Baltimore, MD
- Mar 3, 2016, ***reseARch scientIST: Merging Science and Art To Understand Creativity***
Paul & Louise Miller Lecture Series at the School of Media Sciences, College of Imaging Arts and Sciences, Rochester Institute of Technology, Rochester, NY
- Feb 18, 2016, ***Minds in the Spotlight: Using Live Performance Art To Uncover Creative Thinking Processes***
Human Vision and Electronic Imaging (HVEI), International Conference on Perception and Cognition in Electronic Media, San Francisco, CA
- Oct 1, 2015, ***Being An Art-Science Entrepreneur***
Goucher College Speaker Series' Hispanic Heritage Month, Baltimore, MD

CURRICULUM VITAE

- Sept 29, 2015, **Ignite Grant Recap: Bmore en Español Film Festival**
Ignite Baltimore #17, Falvey Hall, Maryland Institute College of Art, Baltimore, MD
- June 24, 2015, In-studio Expert on **Creativity and AI in the Arts & Sciences**
StarTalk TV show recording with host Dr. Neil deGrasse Tyson, Hayden Planetarium, American Museum of National History, New York City, NY
- Mar 27, 2015, Keynote Speaker, **The Changing Faces of Bilingualism and Cinema**
Bmore en Español: Spanish-Language & Bilingual Spanish-English Film Festival, Baltimore, MD
- Mar 11, 2015, **New Methods, New Data in Creative Cognition**
'On the Mind' exhibition Artist-Scientist talk at Maryland Art Place (MAP), Baltimore, MD
- Mar 11, 2015, **Healing: Insights from the Arts and the Creative Mind**
Greater Baltimore Cultural Alliance's (GBCA) Dialogue in Arts & Healing Brown Bag, Baltimore, MD
- Feb 9, 2015, Keynote Speaker, **Cognitive Psychology Meets Art: Studying Creativity, Language, and Emotion Through Live Musical Improvisation in Film and Theatre**
Human Vision and Electronic Imaging XX (HVEI), International Conference on Perception and Cognition in Electronic Media, San Francisco, CA
- Jan 9, 2015, **Humor, Games, Creativity: Views from Information Visualization, Film, and Theatre**
Embracing Science and the Humanities undergraduate course, Johns Hopkins University, Baltimore, MD
- Nov 18, 2014, **It's Not Art, It's Not Science, It's Both: Being Interdisciplinary**
Inaugural Baltimore Artist's Meet-Up (BAM) Series, Baltimore, MD
- Nov 13, 2014, **Buñuel, Ripstein, del Toro: Voices of Mexican Surrealism**
Community College Humanities Association (CCHA) 2014 Eastern Regional Conference, Baltimore, MD
- Nov 11, 2014, **The (Neuro)Science of Creativity: Improvisation, Composition, and Alternative Media**
Jazz Improvisation undergraduate and graduate course, Johns Hopkins University, Baltimore, MD
- Nov 7, 2014, **The Art & Science of Surrealism, Magic Realism, and Horror in Mexican Cinema**
17th Rehoboth Beach Independent Film Festival, Rehoboth Beach, DE
- Oct 17, 2014, **What Works, What Doesn't, & Why: The Art and Science of Contemporary Data Visualization**
T. Rowe Price's Brand + Creative, Owings Mills, MD
- Sept 18, 2014, **Surrealism: The Art Movement That Still Lives in Our Collective Conscious**
Ignite Baltimore #15, Falvey Hall, Maryland Institute College of Art, Baltimore, MD
- July 24, 2014, **Studying Creativity: At the Crossroads of Art and Science**
Apexart's Public Program Series, New York City, NY
- Apr 24, 2014, **Data Visualization: At the intersection of Art and Cognitive Science**
Capital One's Digital Group, Vienna, VA
- Apr 9, 2014, **The Career of A reseARch scientIST**
The Maryland School for the Blind, Baltimore, MD
- Apr 1, 2014, **reseARch scientIST: arts-based cognitive research**
Music Education Research graduate course, Peabody Institute, Johns Hopkins University
- Jan 31, 2014, **Creativity and Emotion: An Interdisciplinary Approach**
Music Mind Meaning 2014 Conference, Peabody Institute, Johns Hopkins University
- July 17, 2013, **reseARch scientIST: Photographer, Filmmaker, Cognitive Neuroscientist**
Maryland Art Place's Speaker Series *THIRTY: 30 Creative Minds Under 30*, Baltimore, MD
- May 21, 2013, **reseARch scientIST: The Art and Science of Innovation**
DOD-DARPA, Workshop on Human Computer Interaction and Multi-Sensory Exploration of Large Datasets, Arlington, VA
- May 16, 2013, **The Role of Emotion in Musical Improvisation: A Behavioral Study**
Center for Hearing & Balance Seminar, Johns Hopkins University School of Medicine, Baltimore, MD
- Sept 20, 2012, **Studying Creativity: At the Crossroads of Art and Science**
DC Art Science Evening Rendezvous (DASER), National Academy of Sciences, Washington, D.C.

- Aug 30, 2012, **Neural Correlates of Improvisation in Freestyle Rapping**
Summer Workshop on Hearing, Seeing, & Imagining: Music and Visual Arts, East Sussex, United Kingdom
- Apr 29, 2010, **Existence Revisited: A Cognitive Science Approach to to be Verbs**
Center for Hearing & Balance Seminar, Johns Hopkins University School of Medicine, Baltimore, MD

PRESS COVERAGE – Print, Web, & Video

- December, 2017, **Polymath Imagination Retreat Report**
Report by A. Kaplan and S. B. Kaufman, Imagination Institute, University of Pennsylvania
- October, 2017, **An Amalgam of Understanding: The Art and Science of Monica Lopez-Gonzalez**
Article by J. Ferguson, SciArt Magazine, October 2017
- June, 2017, **Reflection: Perspectives on Art-Science Collaboration**
Article by M.V.Z. Gorges *et al.*, SciArt Magazine, June 2017
- June 17, 2016, **Theatre Noir: JHU Alum’s One-Act Play Explores Human Emotion, Creativity**
Article by B. McCabe, The HUB, Johns Hopkins University
- June 6, 2016, **Rousuck’s Review: In “Framed Illusion,” The Art – And Science – Of Perception.**
Article and WYPR 88.1FM Live Radio segment by J. W. Rousuck, *Maryland Morning* on WYPR
- June 2, 2016, **What If A Play Was A Living Dataset? ‘Framed Illusion’ Looks To Find Out.**
Article by S. Babcock, Technical.ly Baltimore
- May 27, 2016, **Playwright Monica Lopez-Gonzalez Weaves Art, Science into “Framed Illusion”**
WYPR 88.1FM Live Radio Interview on *Maryland Morning* with Tom Hall
- Dec 6 and 11, 2015, **Creativity and AI in the Arts & Sciences**
StarTalk TV: Season 2, Episode 6, National Geographic Channel
- June 15, 2015, **Spine: ‘In Session’ by La Petite Noiseuse Productions**
Article by R. M. Oliver, DC Metro Theater Arts
- June 5, 2015, **In Session Explores Fine Lines Between Human, Artificial Intelligence**
Article by B. McCabe, The HUB, Johns Hopkins University
- May 2015, **Dramatic Moments for Improvisation**
Article by M. López-González, The Baltimore Jazz Alliance Newsletter, 12(4), p8.
- Apr 2, 2015, **Dr. Monica Lopez-Gonzalez: Cognitive Scientist and Multidisciplinary Artist**
Maryland Public Television’s *Artworks’* Season 3, Episode 320 POP-UP on MPT-HD
- Mar 19, 2015, **Bmore en Español Film Festival**
WYPR 88.1FM Live Radio Interview on *The Signal* with Aaron Henkin
- Jan 28, 2015, **This is your brain on art: Maryland Art Place exhibit**
Article by S. Babcock, Technical.ly Baltimore
- Jan 5, 2015, **B’More Instructor Spotlight: Monica Lopez-Gonzalez, PhD**
Live interview by Office of Summer and Intersession Programs, Johns Hopkins University
- June 30, 2014, **Nueva obra de teatro estrenada en Washington, D.C.**
Live TV Interview on Buenos Días D.C., Univision with Silvana Quiroz and Néstor Bravo
- June 27, 2014, **Improvisación musical en teatro**
Article by D. Távara, El Tiempo Latino, The Washington Post
- June 26, 2014, **Última Partida**
WDMV 700AM Live Radio Interview on *La Jefa*
- June 23, 2014, **Última Partida**
WBCH 1050AM Live Radio Interview on *La Mera Mera*
- June 23, 2014, **In debut play, JHU alum explores romance, conversation, musical improv: Mónica López-González’s ‘Última Partida’ moves to changing melodies**
Article by B. McCabe, The HUB, Johns Hopkins University

- June 16, 2014, **‘Última Partida’ is a play on words, emotions, and music**
Article by T. Smith, The Baltimore Sun
- June 12, 2014, **Última Partida**
WYPR 88.1FM Live Radio Interview on *The Signal* with Aaron Henkin
- July 19, 2013, **The 6 Basic Human Emotions: Set to Jazz**
WYPR 88.1FM Live Radio Interview on *Maryland Morning* with Tom Hall
- July 19, 2013, **JHU Postdoctoral Fellow Explores Emotion with ARTSCAPE Film Debut**
Article by B. McCabe, The HUB, Johns Hopkins University
- Jan 1, 2013, **Photography Students Take A Crash Course in Visual Thinking**
Article by B. McCabe, Gazette, Johns Hopkins University
- Sept 20, 2012, **Studying Creativity: At the Crossroads of Art and Science**
DC Art Science Evening Rendezvous (DASER), National Academy of Sciences, Washington, D.C.

BOARDS, SCIENTIFIC SOCIETY CHAIR, & REVIEWER

- MEMBER OF THE BOARD OF DIRECTORS; JANUARY 2018 – PRESENT
Invited to serve on the board of the Greater Baltimore Cultural Alliance (GBCA) to advocate and fundraise for arts and culture in the greater Baltimore and Maryland regions.
 - COMMITTEE MEMBER & SESSION CHAIR; MARCH 2015 - PRESENT
Invited committee member for the Society for Imaging Science & Technology’s (IS&T) International Symposium on Electronic Imaging to co-chair a new symposium on **Art and Perception** for the international **Human Vision and Electronic Imaging** (HVEI) conference 2016 and beyond.
 - SESSION CHAIR; JULY 24-27, 2016
Invited session chair for University of Houston’s 2016 *International Conference on Mobile Brain-Body Imaging and the Neuroscience of Art, Innovation and Creativity*.
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OTHER PUBLICATIONS

Scientific Papers

- McPherson M. J., Barrett, F. S., **Lopez-Gonzalez M.**, Jiradejvong, P., Limb, C. J. (2016). Emotional Intent Modulates The Neural Substrates of Creativity: An fMRI Study of Emotionally Targeted Improvisation in Jazz Musicians. *Scientific Reports*, 6, Article Number: 18460; doi:10.1038/srep18460.
- McPherson M. J., **Lopez-Gonzalez M.**, Rankin S. K., Limb C. J. (2014). The Role of Emotion in Musical Improvisation: An Analysis of Structural Features. *PLoS ONE*, 9(8): e105144. doi: 10.1371/journal.pone.0105144.
- Donnay, G. F., Rankin, S. K., **López-González, M.**, Jiradejvong, P., Limb, C. J. (2014). Neural Substrates of Interactive Musical Improvisation: An fMRI Study of ‘Trading Fours’ in Jazz. *PLoS ONE*, 9(2): e88665. doi: 10.1371/journal.pone.0088665.
- **López-González, M.** & Limb, C. J. (February 2012). Musical Creativity and the Brain. *Cerebrum*.
- López-González, M. (September 2010). *Ser and Estar*: Their syntax, semantics, pragmatics, and acquisition in Mexican Spanish. Doctor of Philosophy Dissertation. Johns Hopkins University.

Art Articles

- López-González, M. (June 2016). Trading Conversations: When Improvisation Enters the Dialogue. *Baltimore Jazz Alliance Newsletter*, 13(5): 4.
- López-González, M. (May 2015). Dramatic Moments for Improvisation. *Baltimore Jazz Alliance Newsletter*, 12(4): 8.
- López-González, M. (September 2013). Jazz Improvisation: A Window into the Creative Brain. *Baltimore Jazz Alliance Newsletter*, 10(9): 4.
- López-González, M. (August, 2013). Jazz Meets Film Revisited. *Baltimore Jazz Alliance Newsletter*, 10(8): 4-5.

ART and PUBLIC ENGAGEMENT PROJECTS

MULTIDISCIPLINARY

- Jan 22 – Mar 14, 2015, ***New Methods, New Data: Exploring Creativity***
Invited group exhibition ON THE MIND, Maryland Art Place (MAP), Baltimore, MD
Presented my original photography, film, and theatrical works created through and produced by La Petite Noiseuse Productions. Proposed a cognitive feedback model of spontaneous creative emotional innovation integrating music, language, and emotional expression in the context of live musical improvisation in film and theatre.

FILM

- July 21, 2013, ***Jazz Meets Film***
Invited to perform at ARTSCAPE 2013. Presented my latest film MOMENTS about the six universal human emotions while jazz musicians improvised live the musical soundtrack. Held a 90 minute long Q&A with the audience to discuss the Art and Science of artistic creativity.
- July 2013, ***Moments*** (Narrative Short, 39 mins; writer, director, videographer, editor)
Synopsis: The six universal emotions (sadness, surprise, disgust, fear, happiness, anger) are explored as a woman and man's relationship is tested through a series of events.
- Apr 2011, ***Images*** (Narrative Short, 2:30 mins; writer, director, videographer, editor)
Synopsis: An unnamed man questions his identity. Shot in monochromatic HD video.
- Dec 2009 – May 2010, ***Solitary*** (Documentary (Non)-Fiction, 98 mins; writer, director, videographer, editor)
Invited to create a feature for Peabody Institute of the Johns Hopkins University.
Synopsis: Four composers from Peabody Institute are invited to create an original composition to a contemporary poem for a class competition. This film documents the composers' creative process.
- May 2009, ***Les Tableaux d'Une Rencontre*** (Narrative Short, 21 mins; in French with English subtitles)
Presented film short as part of final thesis portfolio for Certificate of Art in Photography from Maryland Institute College of Art. Incorporates 35mm black & white film photography with HD video.

PHOTOGRAPHY

- Oct 7 – 16, 2014, ***Life of An Orange (revisited)***
Invited Group Hispanic Heritage Month Exhibition *DIME LO QUE SIGNIFICA (Tell Me What It Means)*, Maryland Institute College of Art, Baltimore, MD
Presented collection of original black and white photographs.
- Oct 3, 2014, ***Untitled***
Invited Solo Exhibit, National Aquarium's Annual Fiesta Latina Celebrating Hispanic Heritage Month, Baltimore, MD
Presented collection of original black and white photographs.
- Sept 22, 2014, ***Untitled***
Invited Group Exhibit, Latin Providers Network's Hispanic Heritage Celebration, Baltimore, MD
Presented original black and white photograph.
- Aug 5 – 12, 2010, ***Untitled***
Invited Group Exhibit, Maryland Institute College of Art, Baltimore, MD
Presented original cyanotype photographic portrait.
- Feb 1 – Mar 28, 2009, ***E/Il –lusive Spaces***
Invited Solo Exhibit, First Floor Gallery, An die Musik, Baltimore, MD
Created, curated and presented original color film photographs highlighting the multiple perspectives of real and created visual illusions.
- Sept 10 - 16, 2008, ***Bio Sketches***
Invited Group Exhibit, Maryland Institute College of Art, Baltimore, MD

CURRICULUM VITAE

Presented original color film photographs as a character study on the intellectual tastes of a typical humanities graduate student.

- June 7 - July 13, 2008, **Harmonic Remembrances: Andante**
Invited Group Exhibit, Mills Pond House Gallery, Saint James, NY
Presented original black and white film photograph in an exhibit about the representation of music in photography.
- Jan 27 - Apr 24, 2008, **Irresistible Solitude**
Invited Solo Exhibit, First Floor Gallery, An die Musik, Baltimore, MD
Created, curated and presented original black & white film photographs detailing the anatomy of a piano.
- Sept 12 - 19, 2007, **Life of An Orange**
Invited Group Exhibit, Maryland Institute College of Art, Baltimore, MD
Presented original black and white film photographs detailing the life of an orange from tree to kitchen.

NEUROAESTHETICS

- Jan 2011 – May 2011, **Aesthetics Salon**
Initiated, developed and hosted a 5-month long salon for local artists, researchers, professors and community members. We gathered at various cafés and restaurants in Baltimore, MD and I led conversations on the burgeoning field of Neuroaesthetics.

JUROR

- Apr 2015: Invited juror for the 2015-2016 season of international art installation exhibitions for apexart's Franchise Program; apexart, New York City, NY.

GRANTS & AWARDS

SCIENCE

- February 2017 **Society for the Neuroscience of Creativity 2017 Travel Award**, National Science Foundation
Awarded travel grant to attend and present at the Society for the Neuroscience of Creativity (SfNC) Annual Meeting.
- Oct 2010 – Sept 2013 **T32 Postdoctoral Training Grant**, National Institutes of Health
Awarded grant for Postdoctoral Fellowship in the Department of Otolaryngology, Johns Hopkins School of Medicine to conduct research on the neuroscience of artistic creativity.
- May 2009 **Center for Educational Resources' Technology Grant**, Johns Hopkins University
Awarded grant to use technology in the classroom in a novel way for my original interdisciplinary S.T.E.A.M. course *Mind, Brain, and Beauty* while a graduate student in the Department of Cognitive Science, Johns Hopkins University.
- Sept 2005 – Aug 2010 **IGERT Trainee**, National Science Foundation
Awarded grant for doctoral studies in the Department of Cognitive Science, Johns Hopkins University.
- June 2003 – Aug 2003 **Howard Hughes Research Fellowship**, Johns Hopkins University
Awarded grant to conduct psychology research on memory while an undergraduate in the Department of Psychological & Brain Sciences, Johns Hopkins University.
- June 2002 – Aug 2002 **Provost Undergraduate Research Award**, Johns Hopkins University
Awarded grant to conduct fieldwork in Spain on Spanish music and record CD of solo piano music at Peabody Institute from E. Lecuona's *Suite Espagnole* & I. Albéniz's *El Albaicín* from *Suite Iberia*.

ART

- Dec 2014 **2015 Artist in Residence**, Homewood Arts Programs, Johns Hopkins University
Invited to present La Petite Noiseuse Productions' world premiere theatrical production *In Session* at Swirnow Theater May-June 2015.

CURRICULUM VITAE

- Apr 2014 Johns Hopkins Medical Institutions' Office of Cultural Affairs, Baltimore, Maryland
Awarded sponsorship grant to present La Petite Noiseuse Productions' world premiere theatrical production *Última Partida* June 2014.
 - Sept 2014 **Fall 2014 Ignition Grant**, Ignite Baltimore, Maryland
Awarded grant to fund novel *BMore en Español: Spanish-Language & Bilingual Spanish-English Film Festival* inaugural project March 2015 in Baltimore, MD.
 - Sept 2014 **Departmental Grant**, Peabody Institute, Johns Hopkins University
Awarded conference grant to present as main workshop speaker at Community College Humanities Association (CCHA) 2014 Eastern Regional Conference.
 - Apr 2014 **Spanish Film Club Grant**, PRAGDA, Brooklyn, New York
Awarded grant for Johns Hopkins University School of Medicine's Office of Cultural Affairs to fund a 5-week long contemporary Spanish-language film festival on medical campus.
 - Nov 2013 **Spanish Film Club Grant**, PRAGDA, Brooklyn, New York
Awarded grant for Johns Hopkins University to fund 5-wk long contemporary Latin American film festival on campus.
 - May 2013 **Jazz Meets Film**, Baltimore Office of Promotion & the Arts, Baltimore, Maryland
Awarded artist grant to present original film and music project for ARTSCAPE 2013 on July 21st in Falvey Hall, Brown Center, Maryland Institute College of Art.
 - Apr 2012 **Spanish Film Club Grant**, PRAGDA, Brooklyn, New York
Awarded grant for Johns Hopkins University to fund 5-wk long contemporary Latin American film festival on campus.
 - May 2012 **Honorable Mention**, International Photography Awards Organization, Los Angeles, California
 - May 2005 **Louis Sudler Prize in the Arts**, Office of the Provost, Johns Hopkins University
Awarded prize for Piano Performance of CD with recording of E. Lecuona's *Suite Espagnole* & I. Albéniz's *El Albaicín* from *Suite Iberia*.
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PROFESSIONAL SKILLS

Dynamic and self-motivating Scientist-Artist problem-solver, innovator and leader integrating multiple disciplines with exceptional outside-the-box creative, critical and strategic thinking, multitasking, risk-taking, speaking, writing and fundraising abilities.

SCIENCE

- Original experimental and theoretical cognitive, behavioral, neuroscience and psychology research design, implementation, data acquisition, statistical data analysis, publication, communication, application

ART

- Novel multimedia production, management, storytelling within Theatre, Film and Photography as screenwriter, playwright, director, actor, pre/post production editor, designer, lighting tech, video/photographer
- Foreign-language film festival curating, programming, management, implementation, marketing and hosting

ENTREPRENEURSHIP

- Business development, organization, management, public relations, leadership, team-building in Science-Art-Entertainment-Healthcare-Biotech fast-paced entrepreneurial domains

EDUCATION

- Pioneering, creating, and teaching novel and unique multidisciplinary STEAMM curricula in Higher Education from precollege to postgraduate levels in the classroom & online at the intersection of the Cognitive Behavioral, Computational, Biological, Health & Brain Sciences, and Creativity, Music, Visual, Literary, and Performing Arts

COMMUNICATIONS

- Creative, analytical, content writing in academic, commercial, and entertainment domains

CURRICULUM VITAE

- Multilingual speaking, writing, consulting, and mentoring in Brain and Computational Sciences, Art and Music, Entrepreneurship, Medicine, Public Health and Biotech, Finance and Education for a range of audiences
- English-Spanish-French-Italian written and oral translation

LANGUAGES

- English: native
- Spanish: native
- French: fluent
- Italian: working knowledge
- German: elementary knowledge

SOFTWARE

- Microsoft Office Suite, OS X system, Adobe Creative Suite CS6
- Adobe Premiere, Final Cut Pro, Celtx, GarageBand, Logic Pro
- SPM8 (statistical parametric mapping), MRICron (neuroimaging analysis)
- SPSS statistical package, MATLAB
- Raiser's Edge
- Social media platforms
- Adobe Connect Learning, Cisco WebEx
- Google Analytics, Adobe Analytics

TECHNOLOGY

- SLR manual and digital cameras (35mm and medium format), HD video cameras
- 3-point lighting system, Theater stage lighting, ETC (electronic theatre controls) stage lighting console