

CURRICULUM VITAE

Susana Martinez-Conde

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Education

1996 Ph.D. in Medicine and Surgery. Universidad de Santiago de Compostela, Spain.
1996 M.Sc. in Psychology. Universidad Complutense de Madrid, Spain.
1992 B.Sc. in Experimental Psychology. Universidad Complutense de Madrid, Spain.

Employment

2005- Adjunct Professor, Arizona State University, Dept. of Psychology. Tempe, AZ, USA.
2004- Director, Lab. of Visual Neuroscience. Asst. Staff Scientist. Barrow Neurological Institute. Phoenix, AZ, USA.
2001-03 Lecturer in Visual Science, Institute of Ophthalmology, University College London, UK.
2000-01 Instructor in Neurobiology, Harvard Medical School, Boston, MA, USA
1997-00 Research Fellow in Neurobiology. Hubel laboratory, Harvard Medical School, Boston, MA, USA.
1994 Visiting fellow. Wiesel laboratory, Rockefeller University, NY, USA.
1992-96 Research Fellow. Acuña laboratory, Dept. of Physiology, University of Santiago, Spain.
1991-92 Research Fellow. Borrell laboratory, Cajal Institute, Madrid, Spain.

External grants awarded

2007-10 PI – Arizona Biomedical Research Commission. \$150,000.
2007-10 PI -- National Science Foundation, 0643306. \$426,976.
2007 Co-PI -- Joint donation from Mrs. Grace Welton and Barrow Women’s Board. \$160,000.
Consultant -- NSF’s program in Research in Disabilities Education (NSF RDE 07-511): “Interventions to Support STEM Researchers with Dyslexia”.
2005-08 PI -- Dana Foundation Program in Brain and Immuno-Imaging. \$100,000.
2003-06 Consultant -- NIH RO3 EY14345-01.
2002-03 PI -- Marie Curie Program (EU). €14, 272.
2001-03 PI -- Fight for Sight Startup Award (UK). £75,000.
1998-00 Fellow -- Ministry of Education, Spain. Postdoctoral Research Training.
1997-98 Fellow -- Real Colegio Complutense, Spain. Postdoctoral Research Training.
1994-96 Fellow -- Ministry of Education, Spain. Graduate Research Training.
1992-93 Fellow -- Xunta de Galicia (regional government), Spain. Graduate Research Training.
1991-92 Fellow -- Superior Council of Scientific Investigations (CSIC), Spain. Undergraduate Research Training.

Honors

2007 Named as “*the one person who has been most influential in the development of my scientific career*” by Veronica Shi, Intel Science Talent Search Semifinalist, USA Presidential Scholar and member of USA TODAY’s 2007 All-USA High School Academic Team.
2006 “Galician of the Year Award (March 2006)”. Awarded by *Grupo El Correo Gallego*.
1993 First National Prize for Undergraduate Psychology Major (awarded to the student with highest academic scores from all Psychology Graduates in Spain). Ministry of Education, Spain.
1993 B.Sc. Extraordinary Prize (awarded to the ten students with highest graduating academic scores in a given year). University Complutense of Madrid, Spain.

Press and Popular Media Appearances, Interviews and Recognition (SUMMARY)

There have been **118 press notes or articles** published concerning my research or academic activities. Please see last section of CV for a DETAILED LISTING.

Editorial, Conference and Advisory Boards

- 2008 Member, Advisory Board, 31st “European Conference on Visual Perception (ECVP)”. August 24-28, Utrecht, The Netherlands.
- 2007- Member, Lifeboat Foundation Scientific Advisory Board.
- 2007- Executive Treasurer, Association for the Scientific Study of Consciousness (ASSC).
- 2007- Member, Panel of Experts, *Mind Matters, the Scientific American blog seminar* on Mind and Brain.
- 2007- Member, Panel of Experts, *Quo* magazine, Mexico.
- 2007-08 Guest Editor, *Journal of Vision*. Special Issue on “Eye movements and the perception of a clear and stable visual world”.
- 2007 Organizing Committee, Small Animal MRI Symposium, BNI
- 2007 Scientific and Organizing Committee for the 2nd Spanish-Portuguese Meeting on Perception (CIP). July 7-9, Madrid, Spain.
- 2007 Co-Chair, 11th Annual Conference of the “Association for the Scientific Study of Consciousness” (ASSC). June 25-28, Las Vegas, NV, USA.
- 2006 Conference Committee for the 10th Annual Conference of the “Association for the Scientific Study of Consciousness” (ASSC). June 23-26, Oxford, UK.
- 2006 Conference Committee for the 7th “Towards a Science of Consciousness” Meeting, Tucson, AZ, USA.
- 2006 Reviewer Panel, 29th “European Conference on Visual Perception (ECVP)”. August 20-26, St. Petersburg, Russia.
- 2005-07 Member-At-Large, Executive Board of the “Association for the Scientific Study of Consciousness” (ASSC).
- 2005- Coordinator, Best Visual illusion of the Year Contest.
- 2005- Founding Member and Executive Chair, the Neural Correlate Society.
- 2005 Executive Chair, 28th “European Conference on Visual Perception (ECVP)”. August 22-26, A Coruna, Spain.
- 2005 Scientific and Organizing Committee for the 1st Spanish-Portuguese Meeting on Perception (CIP). July 6-8, Barcelona, Spain.
- 2004- Advisory Committee, University of Arizona Center for Consciousness Studies.
- 2004- Editorial Board, John Benjamins Publishing Co.
- 2004 Scientific Committee for the 8th Annual Conference of the “Association for the Scientific Study of Consciousness” (ASSC). June 25-28, Antwerp, Belgium.
- 2004 Workshop Coordinator, 8th Annual Conference of the “Association for the Scientific Study of Consciousness” (ASSC). June 25-28 2004, Antwerp, Belgium.
- 2003- *Behavioral and Brain Sciences* Associate.

Doctoral Theses Supervised

- 2006 Troncoso, Xoana G. “The role of corner angle in visual physiology and brightness perception”. University College London.

Academic/Community Service

- 2007 Mentoring Program, Society for Neuroscience’s (SfN) Committee on Women in Neuroscience (C-WIN).
- 2007- Member, “Learning Resource Center” Committee. Barrow Neurological Institute, Phoenix, AZ.
- 2006 Mentoring Program, Association for the Scientific Study of Consciousness.
- 2006- Member, Small Animal fMRI Committee. Barrow Neurological Institute, Phoenix, AZ.
- 2005- Supporting Laboratory, The Southwest Association for Education in Biomedical Research (SwAEBR), AZ.
- 2005 Member, Selection Committee, University of Arizona Undergraduate Biology Research Program.
- 2005 Grand Awards Judge, Intel International Science and Engineering Fair. Phoenix, AZ.
- 2004- Faculty Sponsor, University of Arizona Undergraduate Biology Research Program.
- 2004- Member, Institutional Biosafety Committee. Barrow Neurological Institute, Phoenix, AZ.
- 2004 Member, European Conference on Visual Perception Past Organizers Committee that wrote the ECVP Organizers Manual.
- 2004 Career day speaker: Basis Scottsdale, AZ.
- 2003-04 Travel Award Reviewer, Society for Neuroscience’s (SfN) Committee on Women in Neuroscience (C-WIN).

Ad-hoc journal reviewer: *British Journal of Ophthalmology; Experimental Brain Research; Journal of Experimental Psychology; Journal of Neurophysiology; Journal of Neuroscience; Journal of Vision; Neuroimage; Neuroreport; Ophthalmic*

and *Physiological Optics; Perception; PLoS ONE, Proceedings of the National Academy of Sciences (USA); Psychological Bulletin; Psychonomic Bulletin and Review; Scholarpedia; Spatial Vision; Vision Research; Visual Cognition.*

Ad-hoc grant reviewer: USA Army Research Office (ARO); Spain's National Agency of Evaluation; Ireland's Health Research Board Agency for Science, Singapore's Technology and Research's (A*STAR) Biomedical Research Council (BMRC).

International PhD thesis committee panel member: Universidad Miguel Hernández, Alicante, Spain (2006); Utrecht University, The Netherlands (2006).

Plenary Lectures and Workshop Presentations

- 2008 Keynote Lecture. Oregon Health and Sciences University Student Research Forum. Portland, OR, USA.
- 2008 Workshop (Chair): "Fundamentals of conscious vision: a tutorial on the basic functional anatomy of the visual system and its relationship to consciousness". Towards a Science of Consciousness, Tucson, AZ, USA.
- 2007 Plenary Lecture. 14th European Conference on Eye Movements. Potsdam, Germany.
- 2007 Invited Symposium Speaker: "The Aspen Consciousness Retreat". The Mind Science Foundation and the Aspen Center for Integral Health. Aspen, Colorado.
- 2007 Symposium (Co-Chair): "The magic of consciousness". Association for the Scientific Study of Consciousness 11th Annual Meeting. Las Vegas, NV, USA.
- 2007 Plenary Lecture. Meeting on Visual Neuroscience, University of Murcia, Spain.
- 2007 Symposium (Chair): "Visual Neuroscience". 2nd Spanish-Portuguese Meeting on Perception (CIP). Madrid, Spain.
- 2006 Symposium (Chair): "Fixational Eye Movements in Visual Perception, Physiology and Oculomotor Control". Vision Sciences Society, Sarasota, FL, USA.
- 2006 Workshop (Chair): "Neuroscience approaches to visual awareness". Towards a Science of Consciousness, Tucson, AZ, USA.
- 2006 Symposium (Chair): "The Neural Correlates of Consciousness". Towards a Science of Consciousness, Tucson, AZ, USA.
- 2006 Symposium: "Visual Fading and Filling-In". Towards a Science of Consciousness, Tucson, AZ, USA.
- 2005 Symposium: "Adaptation, brightness and contrast". 28th European Conference on Visual Perception. A Coruña, Spain.
- 2005 Symposium: "Art and the Visual System". 28th European Conference on Visual Perception. A Coruña, Spain.
- 2005 Symposium (Chair): "Neural Bases of Visual Perception". 1st Spanish-Portuguese Meeting on Perception (CIP). Barcelona, Spain.
- 2005 Gordon Research Conference: "Oculomotor System Biology". Lewiston, ME, USA.
- 2004 Symposium: "The Relationship of Visibility, Brightness and Saliency to Visual Awareness". 8th Conference of the Association for the Scientific Study of Consciousness, Antwerp, Belgium.
- 2004 Workshop (Chair): "Visibility and Visual Awareness". Susana Martinez-Conde & Stephen L. Macknik. Towards a Science of Consciousness, Tucson, AZ, USA.
- 2003 Plenary Lecture. Meeting on "Biomedical Foundations of Ocular Pathology and the Prevention of Blindness", organized by the University Complutense Forum and the Spanish Vision Handicapped Association. Madrid, Spain.
- 2003 Workshop (Chair): "Visibility, Brightness, Shape, and their Relationship to the Neural Code". Susana Martinez-Conde & Stephen L. Macknik. 12th Annual Computational Neuroscience Meeting, Alicante, Spain.
- 2003 Workshop: "Comparative Perspectives on Sensory Coding". 12th Annual Computational Neuroscience Meeting, Alicante, Spain.
- 2003 Workshop (Chair): "Visibility, Brightness, Shape, and their Relationship to the Neural Code". Susana Martinez-Conde & Stephen L. Macknik. 7th Conference of the Association for the Scientific Study of Consciousness, Memphis, TN, USA.
- 2000 III Atlantic Encounters in Neuroscience. A Coruña, Spain.
- 1999 Symposium (Chair): "Brightness, Contrast and Visibility". Spanish Society for Neuroscience, Murcia, Spain.
- 1998 Workshop: "Visual Perception". Instituto Juan March de Estudios e Investigaciones, Madrid, Spain.

Conference Sessions Chaired

- 2007 "Visual Cognition: Attention and Search II" talk session. *Society for Neuroscience*. San Diego, CA, USA.
- 2007 "Visual approaches" talk session. *Association for the Scientific Study of Consciousness* 11th Annual Meeting. Las Vegas, NV, USA.
- 2006 "Visual cortex: contours and texture" talk session. *Society for Neuroscience*. Atlanta, GA, USA.
- 2006 "Sensation and Perception" talk session. *Association for the Scientific Study of Consciousness* 10th Annual Meeting. Oxford, UK.

- 2006 “Vision and Attention” talk session. *7th Toward a Science of Consciousness Biannual Meeting*. Tucson, AZ, USA.
- 2004 “Memory, Attention and Sensory Integration” talk session. *Association for the Scientific Study of Consciousness 8th Annual Meeting*. Antwerp, Belgium.
- 2004 “Neural Basis of Awareness” talk session. *Vision Sciences Society Annual Meeting*. Sarasota, FL, USA.
- 2004 “Neural Correlates of Visual Consciousness” talk session. *6th Toward a Science of Consciousness Biannual Meeting*. Tucson, AZ, USA.

Invited Institutional Lectures

- 2008 New York University, NY, USA
- 2008 University of Pennsylvania, PA, USA.
- 2008 Mesa Community College. Mesa, AZ, USA.
- 2007 California Institute of Technology, Pasadena, CA, USA.
- 2007 Boston University, MA, USA.
- 2007 University of Murcia, Spain.
- 2007 CosmoCaixa Foundation, Madrid, Spain.
- 2007 Mind Science Foundation. San Antonio, TX, USA.
- 2007 “Spirit of the Senses” Art and Cultural Salon. Phoenix, AZ, USA.
- 2007 Arizona State University, AZ, USA.
- 2007 Mesa Community College. Mesa, AZ, USA.
- 2006 “Spirit of the Senses” Art and Cultural Salon. Phoenix, AZ, USA.
- 2006 Institut de Neurosciences Cognitives de la Méditerranée, CNRS, Marseille, France.
- 2006 Brain Mind Institute, École Polytechnique Fédérale de Lausanne, Switzerland.
- 2006 Utrecht University, The Netherlands
- 2006 Phoenix Art Museum, AZ, USA.
- 2005 University of California, Santa Cruz, CA, USA.
- 2005 President’s Community Enrichment Programs, Arizona State University. Tempe, AZ, USA.
- 2005 “Spirit of the Senses” Art and Cultural Salon. Phoenix, AZ, USA.
- 2005 Institute of Optics, Superior Council of Scientific Investigations. Madrid, Spain.
- 2005 National Institutes of Health. Bethesda, MD, USA.
- 2005 Arizona State University. Tempe, AZ, USA.
- 2004 Case Western Reserve University. Cleveland, OH, USA.
- 2004 University of Potsdam. Potsdam, Germany.
- 2004 University of Arizona. Tucson, AZ, USA.
- 2003 University of South Dakota School of Medicine, SD, USA
- 2003 Applied Vision Research Centre. City University. London, UK.
- 2003 Universidad Miguel Hernández. Alicante, Spain.
- 2003 University of Florida. Gainesville, FL, USA.
- 2003 University of Ohio. School of Osteopathic Medicine. Athens, OH, USA.
- 2003 State College of Optometry, State University of New York. NY, USA.
- 2002 Institute of Cognitive Neuroscience, University College London, UK.
- 2002 The Barrow Neurological Institute. Phoenix, AZ, USA.
- 2002 Harvard Medical School, Boston, MA, USA.
- 2002 Northwestern University. Chicago, USA.
- 2002 Max-Planck-Institute. Tuebingen, Germany.
- 2002 University of Bochum, Germany.
- 2002 University of Freiburg, Germany.
- 2002 Max-Planck-Institute. Dresden, Germany.
- 2002 Max-Planck-Institute for Brain Research. Frankfurt, Germany.
- 2002 Oxford University. Oxford, UK.
- 2001 University of Oregon. Eugene, OR, USA.
- 2001 Boston University. Boston, MA, USA.
- 2001 Emory University. Atlanta, GA, USA.
- 2001 National Institutes of Health. Bethesda, MD, USA.
- 2000 Universidad Miguel Hernández. Alicante, Spain.
- 2000 Institute of Ophthalmology, University College London, UK.
- 2000 City University, London, UK.

1999 Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, USA.
 1999 University of Connecticut, Storrs, CN, USA.
 1998 Departamento de Fisiología, Universidad de Santiago de Compostela, Spain.

Teaching experience

2008 MSc course: "Fundamentals of vision". MSc in "Vision Sciences". University of Murcia, Spain.
 2007-08 PhD course: "Neurophysiological bases of visual perception". Inter-University PhD Program in Vision Sciences. Valladolid, Spain.
 2007 PhD and undergraduate course: "First-order processing in visual systems". PhD Program in Neuroscience (Arizona State University, Tempe, AZ and Barrow Neurological Institute, Phoenix, AZ, USA) and undergraduate "Neurobiology" class (Arizona State University, Tempe, AZ, USA).
 2006 PhD course: "The visual system". PhD Program in "Human Systems Neuroscience". Arizona State University, Tempe, AZ, USA.
 2006-08 PhD course: "Integrative functions of the nervous system: structural aspects". PhD Program in "Neuroscience and Behavioral Biology". University Pablo de Olavide, Seville, Spain.
 2006 PhD course: "Fundamentals of vision". Inter-University PhD Program in Vision Sciences. Valladolid, Spain.
 2005 PhD course: "Central visual pathways, perception and color vision". PhD Program in "Neurophysiology for Engineers". Arizona State University, Tempe, AZ, USA.
 2005 Undergraduate course for Barrett Honors School students: "The visual system". Arizona State University, Tempe, AZ, USA.
 2005-06 Undergraduate course for future medical students: "Being a neuroscientist". Medstart Program, University of Arizona, Tucson, and St. Joseph's Hospital and Medical Center, Phoenix, AZ, USA.
 2004 Postgraduate course: "Physiology and functional anatomy of the visual system". Neurology Residency Program.. St. Joseph's Hospital and Medical Center, Phoenix, AZ, USA.
 2002 PhD course: "Functional anatomy, physiology and perception in the LGN and Area V1". PhD Program in "Psychology and Neuroscience". University of A Coruña, Spain.
 1996-97 Human Physiology. School of Medicine, University of Santiago de Compostela, Spain.
 1996 Undergraduate course: "Neuropsychology". School of Psychology, University of A Coruña, Spain.
 1994 Undergraduate course: "Structure and Function of the Visual System. School of Optics, University of Santiago de Compostela, Spain".
 1994 Undergraduate course: "Neuropsychology". School of Psychology, University of A Coruña, Spain.

Travel and course awards

2000 22nd CVS Symposium Travel Grant. University of Rochester, NY.
 1999 Neural Information Coding Conference Travel Grant. Big Sky, Montana.
 1999 Cold Spring Harbor Course on Structure, Function and Development of the Visual System.
 1997 University of Santiago de Compostela Travel Grant. Dept. of Neurobiology; Harvard Med. School.
 1997 Juan March Foundation. Principles of Neural Integration Workshop. Madrid, Spain.
 1996 IV National Neuroscience Course. Iberoamerican University of Andalucía, Spain.
 1996 Foundation Duques de Soria. Neurobiology of Vision Course. Soria, Spain.
 1996 I Atlantic Encounters in Neuroscience. A Coruña, Spain.
 1995 I National Neuroscience Course. International University Alfonso VIII. Soria, Spain.
 1995 18th Annual Meeting of the European Neuroscience Association Travel Grant. Amsterdam, The Netherlands.
 1995 VI Meeting of the Spanish Society for Neuroscience Travel Grant. Valladolid, Spain.
 1994 European Science Foundation. Neural Bases of Visual Cognition Autumn School. San Feliu de Guixols, Spain.
 1994 Spanish Ministry of Education Travel Grant. Torsten Wiesel Laboratory, Rockefeller University.
 1994 Foundation Ramón Areces. Superior Functions of the Brain: the Associative Cerebral Cortex Course. Madrid, Spain.
 1994 The Brain and I Summer Course. University of A Coruña, Spain.

Additional courses attended

2002 The Visiting Fellowship in fMRI. Massachusetts General Hospital NMR Center. Boston, MA, USA.
 2001 Neural Systems and Behavior. Marine Biological Laboratory, Woods Hole, MA, USA.
 1999 Cold Spring Harbor Course on Structure, Function and Development of the Visual System.
 1997 Juan March Foundation. Principles of Neural Integration Workshop. Madrid, Spain.
 1996 IV National Neuroscience Course. Iberoamerican University of Andalucía, Spain.
 1996 Foundation Duques de Soria. Neurobiology of Vision Course. Soria, Spain.

- 1996 I Atlantic Encounters in Neuroscience. University of A Coruña, Spain.
- 1995 I National Neuroscience Course. International University Alfonso VIII. Soria, Spain.
- 1994 Certification for Teaching Psychology (300 hours). University of Santiago, Spain.
- 1994 European Science Foundation. Neural Bases of Visual Cognition Autumn School. San Feliu de Guixols, Spain.
- 1994 Ramón Areces Foundation. Superior Functions of the Brain: the Associative Cerebral Cortex. Madrid, Spain.
- 1994 Summer Course on “The Brain and I” (Karl Pribram). University of A Coruña, Spain.
- 1991 Summer Course on Psychoimmunology. University Complutense de Madrid, Spain.
- 1990 Behavioral Medicine. Institute of Psychology. A Coruña, Spain.
- 1989 Summer Course on Psychology of Reading: Learning and Comprehension. University of Santiago, Spain.
- 1989 Summer Course on Treatment and Prevention of Drug Dependencies. University of Santiago, Spain.
- 1989 Systemic Family Therapy. Center for Psychological Assistance. A Coruña, Spain.
- 1989 Treatment of Hyperactivity Disorders. Institute of Psychology. A Coruña, Spain.
- 1988 Childhood Psychopathology: New Technologies. Spanish Psychological Society, A Coruña, Spain.
- 1988 Treatment of Nicotine Addiction. Spanish Psychological Society. A Coruña, Spain.
- 1988 Introduction to Psychoanalytic Psychotherapy. Spanish School of Psychotherapy and Primary Prevention. A Coruña, Spain.
- 1988 Analysis of Reading and Writing Skills. Clinical Psychology, A Coruña, Spain.
- 1988 ABC of Childhood Psychology. Alexandre Bóveda Association. A Coruña, Spain.
- 1988 Biofeedback Techniques. Institute of Social Efficacy Techniques. A Coruña, Spain.

Professional licenses

- 2001 UK scientific animal research license: Accredited training for Personnel working under the Animals (Scientific Procedures) Act 1986. Modules 1, 2, 3, 4, 5. Species: Rat, Mouse, Guinea pig, Hamster, Rabbit. The Royal Veterinary College. London, UK.
- 2001 Add-on modules for Personnel working under the Animals (Scientific Procedures) Act 1986. Species: Cat, Marmoset, Old World Monkey (Macaque). University of Newcastle upon Tyne. Newcastle, UK.
- 1994 Psychology Teaching License. Ministry of Education, Spain.

Membership in Scientific Associations

- Association for the Scientific Study of Consciousness (ASSC), USA. Member-At-Large, Executive Board.
- Cognitive Neuroscience Society (CNS), USA.
- Federation of European Neurosciences (FENS).
- International Brain Research Organization (IBRO).
- Neural Correlate Society (NCS), USA. Founding Member and Executive Director.
- Sociedad Española de Neurociencia (SENC), Spain.
- Society for Neuroscience (SFN), USA.
- Vision Sciences Society (VSS), USA.
- Women in Neuroscience (WIN), USA.

Articles

- 1) Macknik SL, King M, Randi J, Robbins A, Teller, Thompson J, Martinez-Conde S. “Attention and awareness in stage magic: turning tricks into research”. *Nature Reviews Neuroscience* (*in press*).
- 2) Martinez-Conde S, Macknik SL. “The role of feedback in consciousness”, Ed. Michael Gazzaniga, The Cognitive Neurosciences, 4th Edition, MIT Press, Cambridge (*in press*).
- 3) Martinez-Conde S, Macknik SL. “Anatomy, physiology, function in the normal visual system”. Visual prosthetics: anatomy, physiology, bioengineering, psychophysics, rehabilitation. G. Dagnelie (Ed). Springer (*in press*).
- 4) Troncoso XG, Macknik SL, Martinez-Conde S. “Corner salience varies parametrically with corner angle during flicker-augmented contrast: further predictions on corner perception from Vasarely’s artworks”. Spatial Vision (*in press*). ***Special Issue on Vision Science and Art**.
- 5) Serra A, Liao K, Martinez-Conde S, Optican LM, Leigh RJ. “Suppression of saccadic intrusions in hereditary ataxia by memantine”. Neurology (*in press*).
- 6) Martinez-Conde S, Macknik SL. “Novel visual illusions based on Victor Vasarely’s art help us understand visual perception”. Ver y Oír (*Spanish; in press*).

- 7) Macknik SL, Martinez-Conde S. "Consciousness: Neurophysiology of visual awareness", Ed. Larry R. Squire. New Encyclopaedia of Neuroscience, Elsevier, Oxford (*in press*).
- 8) Martinez-Conde S, Macknik SL. "The neurobiology of consciousness". Quo Mexico (*in press*).
- 9) Martinez-Conde S. "Skewed vision". Scientific American Mind 18 (October/November), 54-57.
- 10) Macknik SL, Martinez-Conde S. "The role of feedback in visual masking and visual processing". Advances in Cognitive Psychology 3: 125-152.
- 11) Martinez-Conde S. "Blindsight". In Mind Matters, the Scientific American blog on science and mind. September 4. http://blog.sciam.com/index.php?title=blindsight_when_the_brain_sees_what_the&more=1&c=1&tb=1&pb=1&more=1
- 12) Martinez-Conde S, Macknik SL (2007). "Mind tricks". Nature 448: 414.
- 13) Martinez-Conde S, Macknik SL (2007). "Windows on the mind". Scientific American 297: 56-63. ***Featured as the Cover Article of the Scientific American August issue.**
- 14) Martinez-Conde S (2007). "Volver" (*Spanish*). Tribuna de la Ciencia 6: 3.
- 15) Troncoso XG, Tse PU, Macknik SL, Caplovitz GP, Hsieh P-J, Schlegel AA, Otero-Millan J, Martinez-Conde S (2007). "BOLD activation varies parametrically with corner angle throughout human retinotopic cortex". Perception 36: 808-820.
- 16) Martinez-Conde, S (2007 April 10). "Anticipating reward: more than meets the eye". In Mind Matters, the Scientific American blog on science and mind. http://blog.sciam.com/index.php?title=selective_vision_the_brain_s_spin_machin_2&more=1&c=1&tb=1&pb=1
- 17) Simons D, Lleras A, Martinez-Conde S, Slichter D, Caddigan E, Nevarez G (2006). "Induced visual fading of complex images". Journal of Vision 6: 1093-1101.
- 18) Martinez-Conde S (2006). "Fixational eye movements in normal and pathological vision". Progress in Brain Research 154: 151-176.
- 19) Martinez-Conde S, Macknik SL, Troncoso XG, Dyar TA (2006). "Microsaccades counteract visual fading during fixation". Neuron 49: 297-305. ***Preview by Ralf Engbert (Neuron 49: 168-170). *Reviewed by the Faculty of 1000.**
- 20) Tse PU, Martinez-Conde S, Schlegel AA, Macknik SL (2005). "Visibility, visual awareness and visual masking of simple targets are confined to areas in the occipital cortex beyond human V1/V2". Proceedings of the National Academy of Sciences (USA) 102: 17178-17183.
- 21) Martinez-Conde S (2005). "A review of David Hubel and Torsten Wiesel's *Brain and Visual Perception*". Psyche 11 (4).
- 22) Troncoso, XG, Macknik SL, Martinez-Conde S (2005). "Novel visual illusions related to Vasarely's 'nested squares' show that corner salience varies with corner angle". Perception 34: 409-420.
- 23) Martinez-Conde S (2005). "The role of eye movements during visual fixation". BNI Quarterly 21: 44-48.
- 24) Martinez-Conde S, Perez M, Martinez L (2005). "Flipar en colores" (*Spanish*). Quo 118: 110-115.
- 25) Martinez-Conde S, Macknik SL, Hubel DH (2004). "The role of fixational eye movements in visual perception". Nature Reviews Neuroscience 5: 229-240. ***Featured article of the month.**
- 26) Macknik SL, Martinez-Conde S (2004). "Dichoptic visual masking in the geniculocortical system of awake primates". Journal of Cognitive Neuroscience 16: 1049-1059.
- 27) Macknik SL, Martinez-Conde S (2004). "The spatial and temporal effects of lateral inhibitory networks and their relevance to the visibility of spatiotemporal edges". Neurocomputing 58-60: 775-782.
- 28) Martinez-Conde S (2004). "A review of Christof Koch's *The Quest for Consciousness*". Psyche 10 (2).
- 29) Martinez-Conde S, Macknik SL, Hubel DH (2002). "The function of bursts of spikes during visual fixation in the awake primate lateral geniculate nucleus and primary visual cortex". Proceedings of the National Academy of Sciences (USA) 99: 13920-13925.

- 30) Martinez-Conde S, Macknik SL, Hubel DH (2000). "How the visual system prevents the world from fading". Ciencia Al Dia Internacional 3 (3). <http://www.ciencia.cl/CienciaAlDia/volumen3/numero3/articulos/articulo4-eng.html>
- 31) Macknik SL, Martinez-Conde S, Haglund MM (2000). "The role of spatiotemporal edges in visibility and visual masking". Proceedings of the National Academy of Sciences (USA) 97: 7556-7560.
- 32) Martinez-Conde S, Macknik S.L., Hubel, D.H. (2000). "Microsaccadic eye movements and firing of single cells in the striate cortex of macaque monkeys". Nature Neuroscience 3:251-258.
- 33) Martinez-Conde S, Cudeiro J, Grieve KL, Rodriguez R, Rivadulla C, Acuña C (1999). "Effects of feedback projections from area 18 layers 2/3 to area 17 layers 2/3 in the cat visual cortex". Journal of Neurophysiology 82: 2667-2675.
- 34) Cudeiro J, Rivadulla C, Rodriguez R, Grieve KL, Martinez-Conde S, Acuña C (1997). "The action of compounds manipulating the nitric oxide system in the primary visual cortex of the cat". Journal of Physiology 504:467-478.
- 35) Rivadulla C, Grieve KL, Rodriguez R, Martinez-Conde S, Acuña C, Cudeiro J (1997). "An unusual effect of application of the amino acid L-Arginine on cat visual cortical cells". Neuroreport 8: 863-866.
- 36) Rivadulla C, Rodriguez R, Martinez-Conde S, Acuña C, Cudeiro J (1996). "The influence of nitric oxide in the perigeniculate GABAergic cells of the anaesthetized cat." European Journal of Neuroscience 8: 2459-2466.
- 37) Cudeiro J, Rivadulla C, Rodriguez R, Martinez-Conde S, Martinez L, Grieve KL, Acuña, C (1996). "Further observations on the role of nitric oxide in the feline lateral geniculate nucleus." European Journal of Neuroscience 8: 144-152.
- 38) Cudeiro J, Grieve KL, Rivadulla C, Martinez-Conde S, Acuña C (1994). "The role of nitric oxide in the transformation of visual information within the dorsal lateral geniculate nucleus of the cat." Neuropharmacology 33: 1413-1418.
- 39) Cudeiro J, Rivadulla C, Rodriguez R, Martinez-Conde S, Acuña C, Alonso JM (1994). "Modulatory influence of putative inhibitors of nitric oxide synthesis on visual processing in the cat lateral geniculate nucleus. Journal of Neurophysiology 71: 146-149.

Invited contributions (currently in preparation)

- 1) Martinez-Conde S. "Visual Fading" entry, for the Visual Cognition chapter of Scholarpedia - the free **peer-reviewed** encyclopedia (a synthesis of Encyclopedia Britannica and Wikipedia). <http://www.scholarpedia.org>.
- 2) Martinez-Conde S. "Fixational Eye Movements" entry, for the Visual Cognition chapter of Scholarpedia - the free **peer-reviewed** encyclopedia (a synthesis of Encyclopedia Britannica and Wikipedia). <http://www.scholarpedia.org>.

Submitted manuscripts

- 1) Chen Y, Martinez-Conde S, Macknik SL, Bereshpolova Y, Swadlow HA, Alonso J-M. "Detection difficulty modulates neuronal activity in primary visual cortex".

Patents

- 1) Patent pending, based on eye position monitoring technology (BNI Intellectual Property Network)
- 2) Patent pending, based on blood flow measurement technology macular degeneration (BNI Intellectual Property Office).

Books

- 1) Martinez-Conde S, Macknik SL, Martinez LM, Alonso J-M, Tse PU (Eds) (2006). Visual Perception (Part I). Fundamentals of vision: low and mid-level processes in perception. Progress in Brain Research Series, vol. 154. Elsevier Science.
- 2) Martinez-Conde S, Macknik SL, Martinez LM, Alonso J-M, Tse PU (Eds) (2006). Visual Perception (Part II). Fundamentals of awareness, multi-sensory integration and high-order perception. Progress in Brain Research Series, vol. 155. Elsevier Science.
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