

CURRICULUM VITAE

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EDUCATION

2006 PhD in Neuroscience. University College London (UK)
2004 Advanced Diploma in Physiology. University Pablo de Olavide (Spain).
2000 BSc in Physics (specialty Electronics). University of Santiago de Compostela (Spain).

EMPLOYMENT AND RESEARCH EXPERIENCE

2006–ongoing Postdoctoral Fellow. Martinez-Conde laboratory, Barrow Neurological Institute. Phoenix, USA.
2001–2006 PhD student in Neuroscience. University College London, UK. Supervisor: Dr Martinez-Conde.
2003–2004 Visiting Fellow. Tse laboratory, Department of Psychological and Brain Sciences, Dartmouth College, USA. (6 weeks)
2000–2001 Research Assistant. Acuña laboratory, Department of Physiology, University of Santiago de Compostela, Spain.
1999–2000 Undergraduate Fellow. Barro laboratory, Intelligent Systems Group, Department of Electronics and Computer Science, University of Santiago de Compostela, Spain.

TRAINING FELLOWSHIPS

2007-2008 Postdoctoral Research Fellowship. Caja Madrid Foundation, Spain.
2003-2004 PhD Research Fellowship. Caixa Galicia Foundation, Spain.
2003 PhD Research Fellowship. University College London Graduate School, UK.
2001– 2003 PhD Research Fellowship. Barrié de la Maza Foundation, Spain

OTHER AWARDS

2005 Boehringer Ingelheim Fonds Travel Allowance.
Cold Spring Harbor Summer Course Fellowship.
2004 European Conference on Visual Perception Travel Award.
University College London Graduate School Conference Fund Scholarship.
24th Center for Visual Science Symposium Travel Fellowship (Rochester, NY).
University College London Graduate School Research Projects Fund Scholarship.
2003 University College London Graduate School Conference Fund Scholarship.
European Conference on Visual Perception Travel Award.
Marine Biological Laboratory Financial Aid Award.
Bogue Research Fellowship (University College London).
Boehringer Ingelheim Fonds Travel Allowance.
Spanish Ministry of Education Scholarship for PhD Students Mobility.
2002 EU Computational Neuroscience Course Fellowship.
Cold Spring Harbor Summer Course Fellowship.
Bogue Research Fellowship (University College London).
2001 Barrié de la Maza Foundation Summer Course Fellowship.

ADDITIONAL COURSES ATTENDED

- 2005 "Structure, Function and Development of the Visual System" Cold Spring Harbor Laboratory, New York, USA.
- 2003-2004 Course in Neurosciences and Behavioral Biology. IBRO Neuroscience School, University Pablo de Olavide, Seville, Spain. 14 weeks.
- 2003 "Neural Systems and Behavior" Marine Biological Laboratory, Woods Hole, USA. 8 weeks.
- 2002 "EU Advanced Course in Computational Neuroscience." IBRO Neuroscience School, Obidos, Portugal. 4 weeks.
- "Computational Neuroscience: Vision." Cold Spring Harbor Laboratory, New York, USA.
- 2001 "Peace culture for the new millennium". Summer course. International University Menéndez Pelayo (Spain).
- Accredited training for personnel working under the Animals (Scientific Procedures) Act 1986. Modules 1, 2, 3, 4. Species: Rat, Mouse, Guinea pig, Hamster, Rabbit. The Royal Veterinary College. London, UK.
- 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.
- 2000 "A perspective in computer graphics, CAGD and virtual reality. Past, present and future." Summer course. University of Cantabria (Spain).
- "Visual Programming: Visual Basic." University of Santiago de Compostela (Spain).

ACADEMIC AND COMMUNITY SERVICE

- 2007 Organizing Committee, 11th Annual Meeting of the Association for the Scientific Study of Consciousness, June 22-25, Las Vegas, Nevada, USA.
- 2007 Organizing Committee, 3rd Best Visual Illusion of the Year Contest, May 12, Sarasota, Florida, USA.
- 2007 Volunteer Committee, 4th Annual Cosyne Meeting, February 22-25, Salt Lake City, Utah, USA.
- 2006 Organizing Committee, 2nd Best Visual Illusion of the Year Contest, May 8, Sarasota, Florida, USA.
- 2005 Founding and Executive Committee Member, Neural Correlate Society.
- Chair, Student Committee, 28th European Conference on Visual Perception, August 22-26, A Coruña, Spain.
- Interpreter, Intel International Science and Engineering Fair, May 8-15, Phoenix, Arizona, USA.
- 2004 Student Committee, International Symposium "Neuronal Oscillators Underlying Perception, Cognition, and Behavior", April 13-14, Seville, Spain.
- 1996–1998 Volunteers Office, University of Santiago de Compostela, Spain.

PROFESSIONAL LICENCES

- 2003 UK Personal license to carry out regulated procedures on living animals under the Animals (Scientific Procedures) Act 1986.

COMPUTER SKILLS

- PROGRAMMING LANGUAGES C, Matlab.
- OPERATIVE SYSTEMS MS-DOS, Unix, Windows.

MEMBERSHIP IN SCIENTIFIC ASSOCIATIONS

- Society for Neuroscience (SfN), USA.
- Vision Sciences Society (VSS), USA.
- Association for the Scientific Study of Consciousness (ASSC), USA.

LANGUAGES

English, Spanish & French.

INVITED LECTURES

- 2007 Symposium: "Fixational eye movements". 14th European Conference on Eye Movements, Potsdam, Germany
- 2006 1st Annual ASU-BNI Neuroscience Symposium, Phoenix, USA
State University of New York, New York, USA
- 2005 Smith-Kettlewell Eye Research Institute, San Francisco, USA

CONFERENCE SESSIONS CHAIRED

- 2007 "Sensation and Perception" talk session. Association for the Scientific Study of Consciousness 11th Annual Meeting, Las Vegas, USA.

PUBLICATIONS

- **Troncoso XG**, Macknik SL, Martinez-Conde S (in press), "Corner salience varies parametrically with corner angle during flicker-augmented contrast: further predictions on corner perception from Vasarely's artworks." *Spatial Vision (Special Issue on Vision Science and Art)*.
- **Troncoso XG**, Tse PU, Macknik SL, Caplovitz GP, Hsieh P-J, Schlegel AA, Otero-Millan J, Martinez-Conde S (in press). "BOLD activation varies parametrically with corner angle throughout human retinotopic cortex." *Perception*.
- Martinez-Conde S, Macknik SL, **Troncoso XG**, Dyar TA (2006). "Microsaccades counteract visual fading during fixation." *Neuron* 49: 297-305. *Preview* by Engbert R ("Flick-induced flips in perception", *Neuron* 49: 168-170).
- **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.

CONFERENCE PROCEEDINGS

- Otero-Millan J, Leigh JR, Serra A, **Troncoso XG**, Macknik SL, Martinez-Conde S (2007). "Objective characterization of square-wave jerks in progressive supranuclear palsy patients and healthy volunteers." Society for Neuroscience 37th Annual Meeting, San Diego, California, USA, November 3-7. Poster presentation (accepted).
- **Troncoso XG**, Macknik SL, Otero-Millan J, Martinez-Conde S (2007). "Fixational eye movements and Op-Art." 14th European Conference on Eye Movements, Potsdam, Germany, August 19-23. Invited symposium presentation.
- Shi V, Macknik SL, **Troncoso XG**, Martinez-Conde S (2007). "Effect of stimulus width on the simultaneous contrast illusion." Undergraduate Biology Research Program 18th Annual Conference, Tucson, Arizona, USA, January 20. Poster presentation.
- **Troncoso XG**, Macknik SL, Martinez-Conde S (2006). "Corner salience varies parametrically with corner angle during flicker-augmented contrast." Society for Neuroscience 36th Annual Meeting, Atlanta, Georgia, USA, October 14-18. Oral presentation.
- Martinez-Conde S, Macknik SL, **Troncoso XG**, Dyar, TA (2006). "The role of fixational eye movements in visibility and visual awareness." Association for the Scientific Study of Consciousness 10th Meeting, Oxford, UK, June 23-26. Oral presentation.
- **Troncoso XG**, Macknik SL, Martinez-Conde S (2006). "Corner salience varies parametrically with corner angle during flicker-augmented contrast." Vision Sciences Society 6th Annual Meeting, Florida, USA, May 5-10. Poster presentation.
- Martinez-Conde S, Macknik SL, **Troncoso XG**, Dyar, TA (2006). "Microsaccades counteract visual fading during fixation" Vision Sciences Society 6th Annual Meeting, Florida, USA, May 5-10. Poster presentation.

- Shi V, Macknik SL, **Troncoso XG**, Martinez-Conde S (2006). "Effect of stimulus width on the simultaneous contrast illusion." Undergraduate Biology Research Program 17th Annual Conference, Tucson, Arizona, USA, January 21. Poster presentation.
- **Troncoso XG**, Tse PU, Macknik SL, Caplovitz GP, Hsieh P-J, Schlegel AA, Martinez-Conde S (2005). "fMRI correlates of corner-based illusions show that BOLD activation varies gradually with corner angle." Society for Neuroscience 35th Annual Meeting, Washington DC, USA, November 12-16. Oral presentation.
- Martinez-Conde S, Macknik SL, **Troncoso XG**, Dyar, TA (2005). "Microsaccades counteract visual fading during fixation". Society for Neuroscience, 35th Annual Meeting, Washington DC, USA, November 12-16. Oral presentation.
- **Troncoso XG**, Tse PU, Macknik SL, Caplovitz GP, Hsieh P-J, Schlegel AA, Martinez-Conde S (2005). "fMRI correlates of corner illusions show that BOLD activation varies gradually with corner angle." Optical Society of America Vision Meeting. October 21-23. Poster presentation.
- Martinez-Conde S, Macknik SL, **Troncoso XG**, Dyar TA (2005). "Microsaccades counteract visual fading during fixation." Optical Society of America Vision Meeting. October 21-23. Poster presentation.
- **Troncoso XG**, Tse PU, Macknik SL, Caplovitz GP, Hsieh P-J, Schlegel AA, Martinez-Conde S (2005). "fMRI correlates of corner-based illusions show that BOLD activation varies gradually with corner angle." 28th European Conference on Visual Perception, A Coruña, Spain, August 22-26. Oral presentation.
- **Troncoso XG**, Macknik SL, Martinez-Conde S (2004). "Perception of corner saliency varies parametrically with corner angle in human subjects." Society for Neuroscience 34th Annual Meeting, San Diego, USA, October 23-27. Oral presentation.
- **Troncoso XG**, Macknik SL, Martinez-Conde S (2004). "Perception of corners of different angles in human subjects." 27th European Conference on Visual Perception, Budapest, Hungary, August 22-26. Oral presentation.
- Martinez-Conde S, Macknik SL, **Troncoso XG** (2004). "Shape and saliency are confounded in the early visual system." Association for the Scientific Study of Consciousness 8th Meeting, Antwerp, Belgium, June 25-28. Symposium presentation.
- **Troncoso XG**, Macknik SL, Martinez-Conde S (2003). "The role of early visual receptive fields in processing junctions and corners." Society for Neuroscience 33rd Annual Meeting, New Orleans, USA, November 8-12. Oral presentation.
- **Troncoso XG**, Macknik SL, Martinez-Conde S (2003). "A simple, feedforward mechanism for processing junctions." 26th European Conference on Visual Perception, Paris, France, September 1-5. Oral presentation.
- **Troncoso XG**, Macknik SL, Martinez-Conde S (2003). "A simple receptive field model for the multiplexing of shape and intensity in the early visual system." Annual Computational Neuroscience Meeting (CNS'03), Alicante, Spain, July 5-9. Poster presentation.
- Martinez-Conde S, Macknik SL, **Troncoso XG** (2003). "Changes in shape are confounded with changes in intensity in early visual neurons." Association for the Scientific Study of Consciousness 7th Meeting, Tennessee, USA, May 30 - June 2. Oral presentation.
- **Troncoso XG**, Macknik SL, Martinez-Conde S (2003). "Low-level mechanisms for processing of junctions." Vision Sciences Society 3rd Annual Meeting, Florida, USA, May 9-14. Poster presentation.
- Martinez-Conde S, **Troncoso XG**, Macknik SL (2002). "The neural correlates of Vasarely's artworks, or how shape perception can be built up in our brain." Vision Sciences Society 2nd Annual Meeting, Florida, USA, May 10-15. Oral presentation.
- Cano M, **González-Troncoso X**, Senra A, Acuña C (2001). "Microsaccades and visual stimulation provoke synchronization of V1 neuronal populations in behaving monkeys." Spanish Society for Neuroscience 9th Meeting, Santiago de Compostela, Spain, September 8-11. Oral presentation.
- Cano M, **González-Troncoso X**, Senra A, Acuña C (2001). "Dynamic modulation of V1 neuronal assemblies by retinal and extraretinal inputs in behaving monkeys." International Symposium "Languages of the brain", Seville, Spain, May 17-18. Oral presentation.
- Acuña C, Cano M, **González-Troncoso X** (2000). "Do microsaccades contribute to visual perception?" 3rd Atlantic Encounters in Neuroscience, A Coruña, Spain, December 21-22. Oral presentation.